# WEEKLY RETURN

AND IN NINETEEN OTHER LARGE TOWNS
OF THE UNITED KINGDOM.

By Anthocity of the Registrar General.

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No. 1. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JANUARY 7. [Price 1d.

General Register Office, Somerset House, 9th January 1871.

DURING the week ending Saturday the 7th instant, 4979 births and 4691 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom; and the aggregate mortality of the week was in the ratio of

33 deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, stated in the order of their topographical arrangement, were as follow:—London 30 per 1000; Portsmouth 19, Norwich 36, Bristol 39, Wolverhampton 37, Birmingham 28, Leicester 36, Nottingham 34, Liverpool 56, Manchester 38, Salford 31, Bradford 43, Leeds 33, Sheffield 28, Hull 22, Sunderland 24, and Newcastle-upon-Tyne 35. Small-pox caused 50 deaths in Liverpool, one in Manchester, one in Sheffield, one in Hull, and one in Newcastle-upon-Tyne. Of 42 deaths from fever in Liverpool, 19 were cases of relapsing fever.

It is now 177 days since the Weekly Returns from Berlin, and 112 days since those from Paris, were discontinued on account of the War. In Vienna the annual rate of mortality during the week ending 31st December last was 27 per 1000. In the City of Bombay the deaths registered during the week ending 6th December were 331 (exclusive of still-born), and the mortality was at the annual rate of 21

per 1000.

In London the births of 1173 boys and 1195 girls, in all 2368 children, were registered last week. The deaths registered in the same time were 1828. During the corresponding weeks of ten previous years the registered births averaged 2160, and the deaths 1586 per week; after making due allowance for increase of population, the average for the past week is estimated at 2376 births and 1745 deaths; the registered births, therefore, were 8 below, and the deaths 83 above, the estimated average.

The deaths under 5 years of age were 651, at the ages 5 to 20 years they were 142, at 20 to 40 years 242, at 40 to 60 years 330, at 60 to 80 years 391, and 72 at 80 years and upwards. Of infants in their first year 343 died, and 463 persons

aged 60 years and upwards.

Zymotic diseases caused 401 deaths, including 79 from small-pox, 34 from measles, 112 from scarlet fever, 4 from diphtheria, 9 from croup, 36 from whooping-cough, 10 from typhus, 18 from enteric (or typhoid) fever, 9 from simple continued fever,

16 from erysipelas, and 19 from diarrhoea.

The deaths from small-pox were less numerous by 31 than they were in the previous week, and fewer by 3 than in the week ending 24th December: the fatality of the disease, however, was last week as great as in any week of the epidemic of 1863. There is relatively little or no diminution in the mortality in the East Districts, where 36 deaths from small-pox were registered last week, 12 of them being returned from the District of Bethnal Green, and 15 from Shoreditch. The registrar of Mile End Old Town Eastern, reporting the death of a surgeon's daughter, aged 7 years, from small-pox, remarks: "Vaccinated; just moved from "an adjoining parish into this, and into a house in which small-pox had lately "been, without its being disinfected; this the mother learnt when too late." Out of 5 deaths from all causes in the Cripplegate sub-district, 3 were from small-pox, 2 in one house. There were 8 fatal cases in the sub-district of St. John West-

[1.]

minster. In the Small-pox Hospitals at Hampstead and Islington, 8 and 4 cases,

respectively, were registered.

Fifty-four deaths resulted from violence: of these 51 were accidental, including 18 by fractures, 11 by burns or scalds, and 17 by suffocation. Three suicides were registered. A domestic servant, aged 20 years, died on 22d ultimo, of "congestion of brain and liver, accelerated by tight lacing." Post mort. (Inquest.) A labourer's son, aged 15 years, died on 2d instant, at Plumstead, the cause of death being returned as "not known." (Not certified.) The registrar states, that the parents belong to the sect of "Peculiar People," and that though the boy was ill for several weeks he had no medical aid or attendance. The cause of death could not be ascertained, as the Coroner declined to hold an inquest.

Three fatal accidents caused by horses or vehicles in the streets were returned last week: a boy, aged 8 years, died on 31st ultimo, at St. Bartholomew's Hospital, of injuries from being run over by a cabriolet in Islington-road; a widow of a labourer, aged 72 years, died on the 31st ultimo, of fracture of ribs and breastbone, by being run over by a Hansom cab in Southwark-street, found to be dead on arrival at Guy's Hospital; a boy, aged 9 months, died on 29th ultimo, at Clerkenwell

Workhouse, from injuries by being run over.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.809 in.; the highest was 30.7 in. on Sunday, and the lowest was 29.44 in. on Saturday. The mean temperature of the air was 31.1, or 5.4 below the mean temperature of the corresponding week in 50 years (1814-63) as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 45.9 on Saturday; the lowest night temperature was 19.2 on Sunday; the entire range of temperature in the week was, therefore, 26.7. The highest temperature in the sun was 62.9 on Friday. The mean temperature was below the average on the first five days of the week, and above on the remaining days. The difference between the mean dew-point temperature and air temperature was 4.3. The mean degree of humidity of the air was 84, complete saturation being represented by 100. The general direction of the wind was S.S.E., S.W., and W.S.W., and the horizontal movement of the air amounted to 10 miles per hour. Rain fell on the last three days of the week to the amount of 0.07 in.

The mean temperature of the week in the other large English towns furnishing returns ranged from 26°·8 in Bradford, to 33°·3 in Portsmouth; the lowest recorded night temperature was 4°·9 in Wolverhampton, and the highest day temperature in the shade was 48°·8 in Birmingham. Rain fell at nearly all the towns, varying

from 0.08 in. at Nottingham to 0.53 in. at Salford.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 0°·5 below zero; the highest day temperature in the shade was 7°·7; the lowest night temperature was 6°·1 below zero; the highest temperature in the sun was 17°·2. The mean temperature of the week on an average of 50 years was 2°·5, or 3°·0 above the temperature of last week. The wind blew at the rate of 16 kilometres an hour, and the rain-fall was 0·18 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 190,750 cubic metres, and at Barking 172,020 cubic metres, equivalent to about as many tons by weight.

Note.-A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the First Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Average of 10 Weeks.	1871
TOTAL Births	1892	2173	2146	1916	2059	2252	2005	2318	2409	2431	2160.1	2368
Males Females .	1003 889	1104 1069	1099 1047	988 928	1043 1016	1127 1125	1031 974	1190 1128	1243 1166	1247 1184	1107·5 1052·6	1173 1195
Total Deaths	1707	1367	1553	1798	1660	1520	1437	1624	1501	1697	1586.4	1828
Males Females .	843 864	684 683	775 778	877 921	828 832	752 768	728 709	821 803	732 769	838 859	787·8 798·6	902 926

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

		-	1 6	-	100		4 50	2-11	120 07.	PI IN			
F STREET STREET STREET	Oct. 15.	Oct. 22.	Oct. 29.	Nov.	Nov. 12.	Nov. 19.	Nov. 26.	Dec.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Jan. 7.
Total Deaths	1416	1334	1266	1343	1468	1639	1652	1482	1586	1737	1377	1760	1828
Deaths under 5 years of age - Deaths 5-20	579 169	573 141	537 123	568 141	644 136	674 150	712 131	629 126	647 159	688 154	540 143	672 150	651 142
Deaths 20—40 Deaths 40—60 Deaths 60—80	198 233 194	183 198 206	159 225 179	203 198 190	195 236 220	219 276 265	212 244 293	198 222 255	219 239 280	253 278 301	205 215 218	250 294 322	242 330 391
Deaths at 80 years & upwards	43	33	43	43	37	55	60	52	142	63	56	72	72
Deaths from Small-pox - ,, Measles - ,, Scarlet Fever -	13 19 198	17 20 192	21 13 167	23 27 174	19 150	45 36 162	41 24 122	60 33 130	61 27 116	44 27 135	82 25 104	110 29 110	79 34 112
", ", Diphtheria - ", Whooping-cough Typhus favor	11 20 17	8 24 12	9 17 6	7 10 10	20 13	10 28 12	5 26 6	11 25 12	7 32 12	9 44 9	6 33 16	8 49 10	36 10
", "Finds fever - ", Enteric (or Ty-) phoid) fever - SimpleContafever	22	26	24	20	19	22	28	21	_ 26 _ 16	23	30	21	18
" " Diarrhoa " Simple Cholera -	38	25	29	16 2	13	18	18	12	13	12	9	6	19
", ", Phthisis Bronchitis Pneumonia -	165 107 70	153 124 72	136 117 78	148 120 81	154 196 95	176 216 107	165 257 116	144 222 89	167 244 101	173 249 114	144 174 75	185 265 105	186 319 93
,, Heart Disease -	58	66	70	61	75 39·1	37.6	75	79	71	74	57 33·0	88	102
Mean Temperature of the Water of the Thames	-	49	+0 2	-	-	-	-	-	-			25-1	
Humidity of the Air	79	86	88	90	90	90	87	87	89	92	78	85	84
Rain-fall in inches	0:14	1.38	1.16	0.47	0.04	0.18	0.95	0.01	0.84	1.70	0.17	0.42	0.07
	-		-		-	-		-	-				-

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since, the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester,—Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Głasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.;—W. C. Blis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Therustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Sheffled; J. McLandsborough, Esq., F.R.A.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne,

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, le 7th day of January 1871, in the following large Towns.

	F 1 1 1 1 1 1	7th day of	Januai	y 1871, 11	the follow	ing iai	ge 10	VNS.	127 12	- 100 A THE	200
CITIES	Area	Estimated Population	Persons	BIRTHS registered	DEATHS registered		ATURE OF	THE AIR.	TEMPERA- TURE OF THE AIR. (CENTI-		FALL.
AND	in	in the	to an	during the	during the	1 10 10		Weekly	GRADE.)	1000	1000
AND	111	middle of	Acre.	Week ending	Week ending	Highest	Lowest	Mean	Weekly	135	In
BOROUGHS.	Acres.	the Year	(1871.)	7th Jan.	7th Jan.	during	during	of the Daily	Mean of the Daily	In Inches.	Centi-
1			(20,21)	1871.	1871.	Week.	Week.	Mean	Mean	Inches.	metres
- Allerton School		1 1 1 1 1 1 1	Part I	2012	20/21	12.00	11.200	Values.	Values.		1
Total of 20 Towns)	1 . 633		1			THE THE PARTY	1				1
in the UNITED KINGDOM -	213,281	7,336,961	34.4	4979	4691	51.5	4.9	31.1	-0.20	0.43	1.10
LONDON	77,997	3,258,469	41.8	2368	1828	45.9	19.2	31.1	-0.50	0.07	0.18
PORTSMOUTH	9,513	125,464	13.2	73	46	46.0	19.2	33:3	0.72	0.19	0.48
Norwich	7,472	81,787	10.9	69	57	43.0	18.0	29.2	-1.56	0.09	0.53
BRISTOL	4,688	173,364	37.0	121	129	-	1-	1 200	13/2/4 40	Maria .	4-
WOLVERHAMPTON -	3,387	74,438	22.0	39	53	45.9	4.9	29.3	-1.50	0.19	0.48
BIRMINGHAM	7.831	378,574	48.3	257	203	48.8	13.0	30.6	-0.78	0.21	0.53
LEICESTER	3,200	101,367	31.7	75	70	44.5	9.7	28.4	-2:00	0.25	0.63
NOTTINGHAM	1,998	90,480	45.3	47	59	44.7	11.0	27.6	-2.44	0.08	0.20
LIVERPOOL	5,108	526,225	103.0	333	566	48.0	19.1	32.8	0.45	0.37	0.94
MANCHESTER	4,486	379,140	84.2	232	279	-	-	-	211	41-	-
SALFORD	5,172	123,851	23.9	87	73	47.0	10.9	30.0	-1.11	0.53	1.35
BRADFORD	6,590	148,030	22.5	86	122	40.0	6.7	26.8	-2.89	0.52	1.32
LEEDS	21,572	266,108	12.3	92	170	48.0	7.0	27.6	-2.44	0.19	0.48
SHEFFIELD	22,830	255,247	11.2	191	138	47.0	10.7	28.8	-1.78	0.34	0.86
HULL	3,562	135,195	38.0	79	56	-	1137	-	1000	400	-
SUNDERLAND	3,306	103,037	31.2	41	48	1-1	-	-	-		1
NEWCASTLE-ON-TYNE	5,336	136,293	25.2	96	92	45.0	13.0	30.4	-0.89	0.10	0.25
EDINBURGH	4,427	179,944	40.6	124	122	48.7	29.0	37.6	3.11	1.20	3.05
GLASGOW	5,063	477,627	94.3	423	359	46.6	80.0	35.4	2.89	2.19	5.26
DUBLIN	9,745	322,321	33.1	146	221	51.5	28.0	38.2	3.44	-	1
20 30 30				-					F 10 10 10 10 10		
PARIS	19,279	1,889,842	98			-		-	-		-
VIENNA	9,212	622,087	68	THE THE	318†	1	-	14.7+	-9.62+	-	-
BERLIN	15,451	800,000	52	18 - 1 F	53-100	-	-	-	and the same	-	-

<sup>•</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probable before the middle of the year, and will then be substituted for these estimates.

† The facts for Vienna relate to the week ending 31st December last.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Week ending Saturday the 7th day of January 1871.

ANNUAL RATE OF THE DEATHS registered in the Week include from Under 60 5 5 5 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7														
					Tl	e DEA	THS reg	istered	in the	Week in	nclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)		DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Institutions.
Total of 17 Towns -	- 33	3989	800	997	133	83	192	11	102	133	38	115	254	524
LONDON	30	1828	343	463	79	34	112	4	36	37	19	54	113	282
PORTSMOUTH	19	46	8	17	-	-	1.	-	-	-	-	1-	1-	6
NORWICH	36	57	11	18	-	-	1	-	6	2	-	2	2	6
BRISTOL	39	129	22	40	-	3	8	1	-	1	-	3	7	16
WOLVERHAMPTON -	37	53	13	16	- 3	2	1	-	2	-	-	3-1	-	6
BIRMINGHAM	28	203	35	45		6	8	2	10	6	2	10	19	20
LEICESTER	36	70	13	21	-	1	5	-	2	-	1-	als Long	5	7
NOTTINGHAM	34	59	14	20	-	-	-	-	1	1	3	2	9	10
LIVERPOOL	56	566	140	112	50	22	33	1	24	42	8	21	37	60
MANCHESTER	38	279	52	69	1	2	6	-	3	9	2	10	80	45
SALFORD	31	73	23	15 -	-	-	1	-	-	2	1	1	7	5
BRADFORD	43	122	25	32		- 5	3	3	2	7	1	3	3	12
LEEDS	33	170	30	34	1-3	9	2	1	5	6	1	1	7	16
SHEFFIELD	28	138	26	33	1	-	6	-	3	11	1	2	3	12
HULL	22	56	14	23	1	3	2	1 -	100- 9	1	-	1	1.	8
SUNDERLAND	24	48	13	12	-	-	2		6	2		3	5	5
NEWCASTLE-ON-TYNE -	35	92	18	27	1	1	1	187	2	6	-	2	6	8
DUBLIN -	36	221	85	71	4		14	4-1	14	7	2	6	4	67

TABLE 5 .- DEATHS in LONDON Registered in the FIRST Week of the Year 1871.

TABLE	5.—DI	EATHS	in	Lo	NDC	ed in the First Week		Year	187	1.	rul .						
states (4-1)	1-70.	Sat	In t	he V	Veek	endiry 7,	ng 1871.		18 8 -	he 1-70.	Sa	In t	he Way, J	Veek	endi	ng , 1871	
1 1 1 1 18	Week		Dea		of Per		of	1	S ST F Town	Week		Dea	ths o	f Per Age	rsons	of	
CAUSES OF DEATH.	Averages of the First Week the 10 years 1861-70.	ALL		der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages of the First Week the 10 years 1861-70.	ALL		der	r 40.	r 60.	r 80.	pus
15 1 15 1 18 1	Av in the	Mean	2	1	under	under	under	variation of the or of the	是 是	Av in the	AGES. Mean	20	,	under	under.	and under 80.	ars a
Mean Temperature -	36.3	Tem. 31.1	0-5.	5-20.	20 and	40 and	60 and	a Venu	Mean Temperature -	36.3	Tem.	0-5.	5-20.	20 and	40 and	60 and	80 Years upwards.
ALL CAUSES	1586.4	1828	651	-	242	-	-		9. Stricture of Intestines -	7-	1		-		1	-	-
SPECIFIED CAUSES	1571.2	1823	650		240	329	390	72	10. Fistula 11. Stomach Disease, &c 12. Pancreas Disease, &c	6.1	2 4	-	1	1	2	1	
I. ZYMOTIC DISEASES. ORDER 1.	1 1	at.			1		100	143	13. Hepatitis	3°1 17°3	5 3 19	2		1 1 6	3 - 7	1 - 5	1
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	16.8 41.2 65.8	79 34 112	43 31 77	19 3 31	15	2 -	111	E	16. Spleen Disease, &c ORDER 5.	.3	-	-	-	-	-	-	
4. Diphtheria	9·5 1·2 17·9	9	4	5	-	111	11.1	117.13	1. Nephritis 2. Isehuria 3. Bright's Disease (Nephria)	1.2	2 1 8	-	- 1	1	- 5	1 - 2	-
7. Whooping-cough	61'4	36 10 18	33	2 3 1 9	2 3	- - 4 3 2 1	2		4. Diabetes 5. Calculus (Stone) 6. Cystitis	1.6	5	101	-	1	53 -	1	111
- Enteric or Typhoid Fever - Simple continued Fever 9. Erysipelas	7.6	16	5 6	1	1	2	7	1	7. Kidney Disease, &c ORDER 6.	9.5	16		2	3	7	4	-
10. Puerperal Fever (Metria) 11. Carbuncle 12. Influenza 13. Dysentery	1.4 .6 1.5	1 2 2	- 1	1111	4	1		11.	1. Ovarian Dropsy 2. Uterus Disease, &c	4.6	1 3		-	2	1	-	-
13. Dysentery 14. Diarrhœa 15. Simple Cholera 16. Ague	2·5 14·0 6	19	15	1.1.1	1	1	1	1	ORDER 7.  1. Synovitis (Arthritis) -  2. Joint Disease, &c	5.5	1	-	- 1	111	1 1	1	-
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	*8 7 · 9 · 3	20	10	8	5	4	3	111	ORDER 8. 1. Phlegmon	2.4	4		1	-	1	2	
ORDER 2.	8.5	8	8	-		-	-	-	2. Ulcer	1.0	2	2		-	-	-	-
2. Stricture of Urethra 3. Hydrophobia 4. Glanders	-7	4 - 1	=	111	1 -	111	3 -	- 7	IV. DEVELOPMENTAL DISEASES.		-	200	1000	120	C. C.	1	15
ORDER 3. 1. Privation 2. Want of Breast-milk -	·7 8·2	-7	-7	11.0			111	100	ORDER 1.  1. Premature Birth 2. Cyanosis	20.0	27	27 1		11	1.1	-	-
3. Purpura and Scurvy - 4. Alco- ; a Del. Tremens - holism ; b Intemperance -	2.8 2.6	3	1111	1	2	1	1111	=	3. Spina Bifida 4 Other Malformations - 5. Teething	1.5	1 18	2 1 18	111	111		111	-
ORDER 4.	2.7	-		-	-	-	-	-	ORDER 2.	-1	1	-			1		
2. Worms, &c II. CONSTITUTIONAL DIS.	-2	3	1	1	-	1			2. Childbirth (see Puer-) peral Fever) }	5.8	7	-	1	6	-	-	-
ORDER 1. 1. Gout	2.4	4 12	3	1	- 2	3 6	1 1	-	ORDER 3.	67.9	81	-	-	-	7-1	47	37
3. Caneer	26.5 1.0 3.7	29	1	1111	4	16	9 - 1	1111	ORDER 4.  1. Atrophy and Debility -	60.0	64	49	1	1	2	11	-
ORDER 2.	8.4	6	4	1	1	-	-	-	V. VIOLENT DEATHS, &c. ORDER 1.		-		-				
2. Tabes Mesenterica 3. Phthisis 4. Hydrocephalus	16°2 166°4 30°4	13 186 28	12 7 27	1 22 1	90	54	13	11	(ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	17:0	18	1	3	5	7	2	-
III. LOCAL DISEASES. ORDER 1.	1112	191		112			-	1 - 1	2. Wounds	9.6	11 11 1	5 1	2 -	3	1-1	1	1
1. Cephalitis	13.2	15 66	9	3 2	3 5 8	16	30	7 2	5. Drowning	11.8 2.4	17 3	16		-	1	111	
4. Insanity	31·5 2·8 •2	39 2 1	11.1	1	1 -	6 0	27		ORDER 3. (HOMICIDE.)		-					10	150
6. Epilepsy 7. Convulsions 8. Brain Disease, &c	9°3 56°1 18°2	5 45 18	45	1.1.1	2 - 2	2 - 5	1 -7	1111	1. Murder and Manslaughter	2.2		-	-	-	-	-	-
ORDER 2. 1. Pericarditis 2. Aneurism	2.7	4	E	3	I	ĩ	1	15	ORDER 4. (SUICIDE.)		-	1 1	1.1	-	100	-	1
3. Heart Disease, &c ORDER 3.	71.1	102	-	4	19	32	45	2	1. Wounds {Gunshot - Cut, Stab	1:2 1:0	2		-		2	1	-
1. Laryngitis	9·2 235·7 3·1	319 3	11 80	6 -	13	-	115	18	3. Drowning	1:2	9.1.4	=	1.11		111		=
4. Pneumonia 5. Asthma	98.6 21.5 19.0	93 17 29	59 10	4	12 1 2	9 7 8	8 8 7	1 1 2	ORDER 5. (EXECUTION.)			-	-	-			
ORDER 4.  1. Gastritis	1.1	10	- 0	1.1.1	3	-	-4	1717	1. Hanging		-	-	-	-	-	-	-
3. Peritonitis 4. Ascites 5. Ulceration of Intestines	5*0 4·9 2·7 8·2	3 3 3	2 1 -	1711	1	1 2 1 2	1	11.10	Violent Deaths (not classed) Sudden Deaths (Cause un-)	- 6	-		-	-	-	-	-
6. Hernia 7. Ileus 8. Intussusception	4.1	4 5	1	111	111	2	3 2		Sudden Deaths (Cause un-) ascertained)	3.3	1 4	1	-	2	1	1	-
o. Intussusception	.7		1.0		-				denned)		l l		hothe	am 4h	0.000	o is s	_

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON .- Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarler

during the Week ending  The DEATHS registered in the Week include																	
A STATE OF THE PARTY OF THE PAR	3.61	during	during		11-	-314	The :	DEATE	as reg	gistere	d in t	he W	ek in	clude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION 1861.	BB .	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	- 2,803,98	2368	1828	343	463	79	34	112	4	36	10	18	9	19	54	113	282
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	- 458,125 - 618,210 - 383,321 - 571,158 - 773,175	352 490 216 527 783	299 412 208 396 513	57 71 31 86 98	72 109 47 88 147	9 16 6 36 12	13 1 3 8 9	16 34 9 13 40	1 1 - 2	4 5 6 15 6	1 2 1 4 2	4 6 2 2 4	2 - 3 2 2	5 2 3 2 7	11 10 10 13 10	14 30 18 36 15	49 76 39 54 64
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town W - Brompton H - St. Peter Hammersmith - St. Peter Hammersmith H - Fulham WL - Chelsea South H - Chelsea North-west HWw - Chelsea North-east - Hanover Square - May Fair W - Belgrave H - St. John Westminster H - St. Margaret Westminster WH - St. James's Square - Golden Square W Berwick-street - St. Anne Soho -	- 39015 - 36769 - 51910 - 18198 - 5415 - 19104 - 18539 - 21654 - 19899 - 21886 - 19773 - 5113 - 57143 - 37483 - 30730 - 10753 - 10607 - 17426	39 14 64 15 7 20 20 18 16 15 6 1 39 32 9 5 10 13	32 15 23 15 3 15 10 20 21 11 8 6 36 43 10 7	7173   34 423 11972   12	8474111 874 64632 -51-	81	2 - 1 - 5 - 1 1 1 1 1	111112 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	111111111111111111111111111111111111111	111111111111111111111111111111111111111	1977411 111 1111 1111	111111111111111111111111111111111111111	111111111111111111111111111111111111111	131111111221111	14 77 2 11 121 111	4774
North Districts.  All Souls Marylebone H Cavendish Square Rectory Marylebone W St. Mary Marylebone H Christchurch Marylebone St. John Marylebone Hampstead WH Regent's Park Pancras Tottenham-court wH Gray's Inn Lane H Somers Town Camden Town W Kentish Town Islington West* WHH Islington East Ww Stoke Newington Stamford Hill West Hackney Hackney WHW South Hackney L	- 29952 - 15090 - 20652 - 22493 - 34913 - 34913 - 32540 - 19106 - 34927 - 29371 - 27638 - 36929 - 23266 - 44317 - 75442 - 76899 - 6608 - 6483 - 24925 - 31481 - 15458	16 6 16 31 23 22 18 21 17 14 26 15 37 64 80 5 3 25 34 17	27 4 31 8 19 14 17 23 9 21 22 14 29 41 77 7 3 11 22 14	22 24 13 1 1 3 3 5 8 - 5 6 6 16 1 1 3 1 5	6 1 1 1 3 5 7 1 9 1 4 3 9 7 8 1 8 1 8 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2	8 7 1 1 1 4 2 1 1 1 1	111111111111111111111111111111111111111	3 1 1 1 8 - 2 3 2	111111111111111111111111111111111111111	1 2	111111111111111111111111111111111111111	111111111111111111111111111111111111111	THE RELIGIONS OF THE STREET	TITLE METERIAL PROPERTY.	3 -1 -2	4 -1 -3 2 -4 2 9 3 1 1 -1	13 15 - 8 - 1 2 - 8 - 10 12 - 7
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH St. Giles North Long Acre Charing Cross WH St. Mary-le-Strand St. Clement Danes H St. George-the-Martyr H - St. Andrew East Holborn W Saffron Hill St. James Clerkenwell W - Anwell Clerkenwell W - Pentonville Goswell-street City-road HL Whitecross-street Finsbury St. Botolph East London - Cripplegate St. Sepulchre WH - St. Bride W Castle Baynard - Christchurch - Queenhithe Allhallows Barking Broad Street Chilboure Broad Street Chilboure Broad Street Christchurch Allhallows Barking Broad Street Broad Street Chilboure Broad Street Broad Street Chilboure Broad Street Castle Broad Street Chilboure Broad Street Charles Broad Street Charles Broad Street	- 17892 - 19483 - 17201 - 11618 - 11071 - 10846 - 15207 - 19903 - 12947 - 12912 - 17250 - 13079 - 16200 - 11694 - 17880 - 14778 - 12913 - 12917 - 12917 - 12917 - 12917 - 12917 - 12917 - 12918 - 14778 - 12981 - 14778 - 12981 - 14788 - 1478	6 17 10 7 6 6 8 12 12 12 14 14 5 10 9 5 30 11 5 10 5 6 6 6 7 8	15 16 5 5 5 11 13 14 8 11 7 6 11 17 8 11 17 8 11 17 8 17 8 1	13 - 2 - 3 2 1 1 3 - 4 1 1 - 1 - 1 1 1	53 12 4 4 - 4 1 - 2 1 2 - 1 3 2 2 4 1 1 1 - 3	111111111111111111111111111111111111111	1	1111	CONTRACTOR OF THE CO.	8		1	THE THE CHARLES THE CONTROL OF THE C	THE THE PERSON CONTRACTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	8 2 2 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H-Hospital;

L-Lunatic Asylum;

v-A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 7th January 1871.

Saturday, 7th January 1871.	Party.	DO 1	1 00		THE REAL PROPERTY.	775	ml - 7	91	4	001					14.1	7	
- AND STREET		during	during	- 11		- 40	The D	EATH	s regis		in the	1	k incl	ude		F	-
REGISTRARS'	POPU-	гня ф	THS d	ear of	ars of Age upwards.	12	100	ver.		Whooping-cough	-	Enteric (or Typhoid) Fever.	con- Fever.	-		ses.	Insti-
SUB-DISTRICTS.	1861.	Вівтня Week.	DEA	r 1 Ye	ars of	L-pox.	les.	et Fe	heria	ping	us.	ie (o	ed Fe	hœa.	nce.	st Ca	blic I
TOTAL PROPERTY	100	Total	Total DEATHS the Week.	Under 1 Year Age.	60 Years and upv	Small-pox.	Measles.	Scarlet Fever	Diphtheria.	Whoc	Typhus.	Enter	Simple	Diarrhea.	Violence.	Inquest Cases.	In Public 1 tutions.
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Hoxton New Town w Hoxton Old Town Haggerstone West W	26516 25777 23260	27 19 14	16 18 17 24	4 4 6	5 4 7	1 2 7 1 3	1	1 2	=	-	- 1	=	LL	111	111	111	3 - 3
Haggerstone East	17310	21	7	-	23.	-	1		1	-	-	-	-	-		-	-
Green, Bethnal Green WHLt	26298 31789 25528	23 45 21	13 41 14	4 8 4 3	10 1	6 1 3	1 1	3 -	=	1	1 -	3	-	1.1.1	1	8 5 2	10
Town, Bethnal Green  Artillery Whitechapel	21486 6557	18	13		1	2	-	1	-	1	-	1	-	1	2	2	-
Spitalfields	15700 15392 12122	9	11 4	2 3 2 2	2	2 -	=	1 -		-	-	-	=	1	1 -	2	1111
Whitechapel Church H Goodman's Fields	8062 11166	9 7 7 7 7	14	2 2	1	=	i	17.7	-	-	=	-	1	-	4	4	10
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St. Mary St. George East St. Paul St. George East St. John St. George East W	21015 9695	18 8	10 8	2 -	1 3	-	=	-	=	-		•=	-	-	-	1	3
Shadwell W Rateliff WH Limehouse W	12537 16874 27161	8 16 18	8 11 11	2 2 1	3 1 4	111	=	- 1	=	- - 1	=	=	11	1.1.1	2	2 1	ī
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Bow WwLt	35667 43529	59 37	50 28	10 6	16 6	2 -	-	1 -	-	4 2	1 -	1 -	-	ĩ	2 -	5 -	14 3
SOUTH DISTRICTS. Christchurch Southwark_W	17069	14	7	1	1	PIT	1	1	377	1	1		1	11			2
St. Saviour Southwark H	19101 19652	12 21	12	3 1 1	4	=	3	=	=	-	-	=	-	=	1	2 2	- 2
Borough-road W London-road L Trinity Newington St. Peter Walworth W	16668 19190 22675	14 15 20	7 12 10		2 3 4 5	1 - 1		111	111	1	=	- 1	-	111	1111	-	- 6
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St. Olave Southwark H St. John Horsleydown W Leather Market	7663 11393 16696	2 6 12	11 7 11	ī	4 2 5	1 1		- 2	-		- 1	- 1		1 1 1	2	2 -	9 2
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Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W	18640 19839 29542	34 15 43	13 10 87	1 6	4 3 13	-	2 -	1 6		111	1 -		1 -	1 1	- 2	2	15
Kennington 1st Kennington 2nd Brixton	30785 20440 20067	40 22 33	9 10	1 6 2 3 6	9 3 3	ī	1 -	1 -	=	1	=	111	=	- 2	1	ī	1
Norwood W	7462	5	5 24	2	17	12	-	4-	-	1	-	-	-	1	I -	•	- 8
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Putney	6481 10082	3 5	5	=	2		11		1)	=	-	1.1	-	12	1.1	-	1.1
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St. Paul Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	46 4 12 14	28 5 11 15	4 1 3 1	6 6	3 1 -	1111	4	1111	1	1111	1	1111	1 - 1	1111	1111	10
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- Manual Land	, ,	10	1 3	1	0		6 %	P. Lake	-	3	-					-	-

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

tollowing are Observed was a consistent of the rest of the season of the

Holborn Workhouse is in Hoxton New Town sub-district.

Mile End Old Town Eastern sub-dist. and
Stepney - , , , Bow sub-district.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 7th JANUARY, 1871. Under the Superintendence of the Astronomer Royal.]

1871	she stady	ive ive	ose ose	I	56	1.00	400	000	8:0	: :		Marin.	020	.ano	100	2	VAS.	DAM
NOON   HAND   Color	an da dry a resu ude t	the come to the co	h the	-	-	100	10	003	94	88	388	hes 00	the the	ace in.	ose	a lige	cted	IN.
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MOON   HANDON   MARIEL   Dec.   Dec.   Dec.   Highest   Dec.	1848. The values of edition.	are taken  barome  converte  cher, F.R.	feet abo	W.Coll.	24	Sum 1655	440	315	368	147	132	Miles.	of Air each day.	Horizontal Movement	Amount of	Robinson's.	Sept.	
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MOON   HANDON   MARIEL   Dec.   Dec.   Dec.   Highest   Dec.	s' obse point a bulb t	e Roys ; 3h. nomet value	e heig	10	16	2.1	0.0	0.0	0.0	0.0					-1	1	-	BENCE
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LONDON: Printed by GEORGE E. EYEE and WILLIAM SPOTIISWOODE, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Office.

## WEEKLY RETURN

OF

# BIRTHS AND DEATHS IN LON

# OF THE UNITED KINCDOM.

By Authority of the Registras General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 2: 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JANUARY 14. [Price 1d.

General Register Office, Somerset House, 16th January 1871.

DURING the week ending Saturday the 14th instant, 5050 births and 4413 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom; and the aggregate mortality of the week was in the ratio of

31 deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities—and Towns, stated in the order of their topographical arrangement, were as follow:—London 30 per 1000; Portsmouth 18, Norwich 38, Bristol 36, Wolver-hampton 28, Birmingham 35, Leicester 31, Nottingham 28, Liverpool 44, Manchester 29, Salford 32, Bradford 28, Leeds 30, Sheffield 31, Hull 24, Sunderland 24, and Newcastle-upon-Tyne 23. The deaths from all causes in these Seventeen Towns were less by 184 than those returned in the previous week, there being a considerable decline in Liverpool and Manchester. Small-pox caused 175 deaths, of which 135 occurred in London, 35 in Liverpool, 3 in Manchester, 1 in Hull, and 1 in Newcastle-upon-Tyne.

It is now 184 days since the Weekly Returns from Berlin, and 119 days since those from Paris, were discontinued on account of the war. In the City of New York the deaths registered in the week ending 24th December were 487, and the equiva-

lent annual rate of mortality was 27 per 1000.

In London the births of 1204 boys and 1153 girls, in all 2357 children, were registered last week. The deaths registered in the same time were 1896. During the corresponding weeks of ten previous years the registered births averaged 2078, and the deaths 1702 per week; after making due allowance for increase of population, the average for the past week is estimated at 2286 births and 1872 deaths; the registered births, therefore, were 71, and the deaths 24, above the estimated average.

The mortality was higher last week than it was in any week during the whole of 1870. The recent cold weather has had its natural effect in raising the mortality at advanced ages of life: during the three weeks ending November 12th when the mean temperature was 44°, the proportion of deaths at ages 40 and upwards was 34 per cent. of the total deaths; the mean temperature of the last three weeks was 30°, and the proportion of deaths at the ages 40 and upwards was 43 per cent.

Zymotic diseases caused 398 deaths, including 135 from small-pox, 27 from measles, 77 from scarlet fever, 9 from diphtheria, 15 from croup, 38 from whooping-cough, 10 from typhus, 17 from enteric (or typhoid) fever, 1 from relapsing fever, 10 from

simple continued fever, 11 from erysipelas, and 17 from diarrheea.

Small-pox was fatal last week in London in the proportion of 22 deaths annually to every 10,000 of the present estimated population. The greatest number of deaths previously recorded from small-pox in any one week since the passing of the Compulsory Vaccination Act (1853) was 71 in the week ending May 9th, 1863, and the fatality of the disease during seven consecutive weeks at that time averaged 66 deaths per week. In the seven weeks ending Saturday last the deaths averaged 81 per week.

The extent to which small-pox prevails in different parts of the Metropolis, so far as the mortality returns afford indication, can only be correctly ascertained by distributing the fatal cases occurring in the Small-pox Hospitals at Hampstead and Islington among the districts whence the cases were brought. Thus last week.

[2.]

there were 39 deaths returned from the Northern group of districts, of which 25 occurred in the two small-pox hospitals situate in those districts. Of the 25 fatal cases, 9 had been brought from the Eastern Districts, while only 6 belonged to the Northern group itself. After making a correction of this nature for each of the five groups of districts, the mortality in each group last week from small-pox was in the annual ratio of 24 deaths to every 10,000 of the present estimated population in the West, 14 in the North, 20 in the Central, 45 in the East, and 10 in the The rapid development of the epidemic in the Western group is apparent from the fact that out of an aggregate of 83 fatal cases returned during the last fifteen weeks, 50 have occurred within the last three weeks. In the two sub-districts of St. John and St. Margaret Westminster, out of 70 deaths registered last week from all causes, 21 resulted from small-pox; three children in one family died in the latter of these sub-districts, and notes appended by the registrar of St. John's to his return evidence a most deplorable neglect of vaccination among the population.

Fifty-eight deaths resulted from violence: of these 48 were accidental, including 15 by fractures, 8 by burns or scalds, 4 by drowning, and 16 by suffocation. Six suicides were registered. A shoemaker, aged 68 years, died on 6th instant, at 4 Flower-and-Dean-street, Spitalfields, of "violent effusion of scrum into ventricles of brain from exposure and privation." (Post mort.)

Three fatal accidents caused by horses or vehicles in the streets were returned last week: a steward's boy, aged 17 years, died on 5th instant, at St. Mary's Hospital, Paddington, of rupture of liver by slipping on the snow and falling under a cart; an undertaker, aged 24 years, died on 10th instant, at West London Hospital, Hammersmith, from a fall from a coach, caused by collision with a cart; a gasfitter, aged 59 years, died on 6th instant, at the London Hospital, Whitechapel, from fractured ribs, by a van crushing him through his falling in the street.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.656 in.; the highest was 30.06 in. on Friday, and the lowest was 29.21 in. on Monday. The mean temperature of the air was 33°0, or 3°0 below the mean temperature of the corresponding week in 50 years (1814-63) as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 44° 8 on Saturday; the lowest night temperature was 18° 3 on Friday; the entire range of temperature in the week was, therefore, 26°.5. The highest temperature in the sun was 60°.8 on Thursday. The mean temperature was below the average on each day of the week, with the exception of Saturday, when there was an excess of 4° 0. The difference between the mean dew-point temperature and air temperature was 3°.4. The mean degree of humidity of the air was 87, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air amounted to 9.3 miles per hour. Rain fell on Wednesday and Friday to the amount of 0.08 in.

The mean temperature of the week in the other large English towns furnishing returns ranged from 29° · 2 in Hull, to 36° · 5 in Liverpool; the lowest recorded night temperature was 12° 1 in Wolverhampton, and the highest day temperature in the shade was 49° 0 in Liverpool. Rain fell in all the towns, with the exception of Norwich, the quantities measured ranging from 0.06 in. at Hull, to

0.73 in. at Portsmouth and Wolverhampton.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 0°·6; the highest day temperature in the shade was 7°·1; the lowest night temperature was 7°.6 below zero; the highest temperature in the sun was 16° 0. The mean temperature of the week on an average of 50 years was 2° 2, or 1° 6 above the temperature of last week. The wind blew at the rate of 15 kilometres an hour, and the rain-fall was 0.20 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 200,684 cubic metres, and at Barking 244,032 cubic metres, equivalent to about as many tons by weight.



Table 1. LONDON.—Births and Deaths Registered Last Week, and in the Second Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Average of 10 Weeks.	1871
TOTAL Births  Males Females .	1865	1881	1954	2019	2002	1928	2382	2132	2270	2351	2078·4	2357
	959	918	1024	1026	1035	967	1229	1053	1179	1173	1056·3	1204
	903	963	930	993	967	961	1153	1079	1091	1178	1022·1	1153
Total Deaths Males Females	1707	1561	1535	2427	1669	1506	1891	1574	1490	1664	1702·4	1896
	846	780	785	1124	856	756	911	816	741	815	843 0	- 937
	861	781	750	1303	813	750	980	758	749	849	859·4	- 959

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

													-
	Oct. 22.	Oct. 29.	Nov. 5.	Nov.	Nov. 19.	Nov. 26.	Dec.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Jan. 7.	Jan. 14.
TOTAL Deaths	1334	1266	1343	1468	1639	1652	1482	1586	1737	1377	1760	1828	1896
Deaths under 5 years of age - Deaths 5-20	573 141	537 123	568 141	644	674 150	712 131	629 126	647 159	688 154	540 143	672 150	651 142	660 135
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	183 198 206 33	159 225 179 43	203 198 190 43	195 236 220 37	219 276 265 55	212 244 293 60	198 222 255 52	219 239 280 42	253 278 301 63	205 215 218 56	250 294 322 72	242 330 391 72	241 355 412 93
Deaths from Smallpox ,, Measles ,, Scarlet Fever - ,, Diphtheria -	17 20 192 8	21 13 167 9	23 27 174 7	40 19 150 4	45 36 162 10	41 24 122 5	60 33 -130	61 27 116 7	44 27 135 9	82 25 104 6	110 29 110 8	79 34 112 4	135 27 77 9
", Whooping-cough ", Typhus fever - ", Enteric (or Ty-)	24 12 26	17 6 24	10 10 20	20 13 19	28 12 22	26 6 28	25 12 21	32 12 26	44 9 23	33 16 30	49 10 21	36 10	38 10 17
phoid) fever - \( \)  , Simple Cont <sup>d</sup> fever  , Diarrhœa -  , Simple Cholera -		7 29 1	15 16 2	8 13	13 18	10 18	15	16 13 1	15	12 9	13	9 19 —	11 17
,, Phthisis, Bronchitis, Pneumonia, Heart Disease -	153 124 72 66	136 117 78 70	148 120 81 61	154 196 95 75	176 216 107 81	165 257 116 75	144 222 89 79	167 244 101 71	173 249 114 74	144 174 75 57	185 265 105 88	186 319 93 102	178 377 91 109
Mean Temperature of the Air	49.7	48.2	44.1	39.1	37.6	46.8	38.9	32.5	42.8	33.0	25.7	31.1	33.0
Mean Temperature of the Water of the Thames -	-	_			-	_	_	-	_	_	-	_	_
Humidity of the Air	86	88	90	90	90	87	87	-89	92	78	85	84	87
Rain-fall in inches	1.38	1.16	0.47	0.04	0.18	0 95	0.01	0.84	1.70	0.17	0.42	0:07	0.08

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S., .—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., W.S., W.S., Esq., F.M.S., P.M.S., F.M.S., F.M.S., F.M.S., Esq., F.M.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Berdight, J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered and METEOROLOGY during the Week ending Saturday, the 14th day of January 1871, in the following large Towns.

		4th day o	f Janua	ry 1871, ii	n the follow	wing la	rge To	WNS.			
CLTIES	Area	Estimated Population	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE		THE AIR.	RAIN	FALI
BOROUGHS.	in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 14th Jan. 1871.	during the Week ending 14th Jan. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Cei mei
Total of 20 Towns in the United Kingdom	213,281	7,336,941	34.4	5050	4413	51.0	12.1	33.4	0.78	0.33	0.
LONDON	77,997	3,258,469	41.8	2357	1896	44.8	18.3	33.0	0.23	0.08	0.
PORTSMOUTH	9,513	125,464	13.2	77	44	45.1	20.8	34.6	1*45	0.73	1.
Norwich	7,472	81,787	10.9	. 68	59	42.0	23.0	31.0	-0*56	0.00	0.
BRISTOL	4,688	173,364	37.0	117	118		-			-	
WOLVERHAMPTON -	3,387	74,438	22.0	51	40	41.0	12.1	30.2	-0.83	0.43	1.
BIRMINGHAM	7,831	378,574	48.3	255	256	43.5	21.9	32.2	0.11	0.60	1.
LEICESTER	3,200	101,367	31.7	78	61	44.0	18.7	31.2	-0.45	0.11	.0.
NOTTINGHAM	1,996	90,480	45.3	52	48	40.0	18.4	30.4	-0.89	0.33	0.
LIVERPOOL	5,108	526,225	103.0	355	441	49.0	27.8	36.2	2°50	0.40	1.
MANCHESTER	4,486	379,140	84.5	229	214	. —		description	-	-	-
SALFORD	5,172	123,851	23.8	119	76	44.4	18.8	30.6	-0.78	0.42	1.
BRADFORD -	6,590	148,030	22-5	103	- 80	43°8	25.5	31.8	-0.11	0.21	0.
LEEDS	21,572	266,108	12.3	191	153	43.0	27.0	33.6	0.80	0.26	0.
SHEFFIELD	22,830	255,247	11.2	171	150	44.0	27.0	34.3	1.28	0.11	0.
HULL	3,562	135,193	38.0	87	63	41.0	18.0	29.2	-1.56	0.08	.0.
SUNDERLAND	3,306	103,037	31.2	43	47				-		,
NEWCASTLE-ON-TYNE		136,293	25.5	60	59	47.0	26.0	33.5	0*84	0.20	0.
EDINBURGH	4,427	179,944	40.6	149	85	47.7	29.0	36.5	2.20	0.50	0.
GLASGOW	5,063	477,627	94.3	355	327	46°4	24.5	30.3	4.22	0.68	1.
DUBLIN	9,745	322,321	33'1	133	196	51.0	26.0	. 38*5	3.61		-
PARIS	19,279	1,889,842	98		1				*****		-
VIENNA	.9,212	622,087	68		_			_			
BERLIN	45,451	800,000	52	arina "	muses.		-		Annual Contraction	sierrey	1 -
								1			1

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probabe available before the middle of the year, and will then be substituted for these estimates.

Table 2.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Wending Saturday the 14th day of January 1871.

-			nuing Dat	arday	220 1961	uay	or oa	muar y	1011	•					
Total Control		ANNUAL	-	-		The	e DEAT	ns regi	stered	in the	Veek ir	clude			
TO STANLEY	BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	MOR- TALITY per 1600 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough,	Fever.	Diarrhœa.	Violence.	Inquest Cases.	
ı	Total of 17 Towns -	31	3805	767	963	175	.86	153	16	100	114	32	134	246	-
1	LONDON	80	1896	349	505	135	27	77	9	38	38	17	58	126	0
	PORTSMOUTH	48	44	⊲8	12	_				1	. 4		3	.8	
ı,	NORWICH	\$8	.59	14	19	-	-	3		3	٠	1	1	3	
	BRISTOL	36	118	21	47	-	8	2	-	-	.2	1	1	3	
	WOLVERHAMPTON -	-28	40	6	13	-	-	1	-	2		1	4	5	
ľ	BIRMINGHAM	35	256	62	.44	-	9	9	2	12	5	4	26	39	
2	LEICESTER	81	61	. 9	13	-	, - '	11	1	2	-		3	7	
ı	NOTTINGHAM	.28	48	7	: 19	<b>₩</b> , 1	+ ,	1		10	-	1	2	· · · · · · · · · · · · · · · · · · ·	
	LIVERPOOL	44	441	125	94	85	29	25	1	27	28	1	12	17	
ě	MANCHESTER	.29	214	34	.47	3	.8	4	-	3	13	1	8	11	
	SALFORD	-32	76	13	17	-	-	2	-	-	-		3 .	6	
1	Bradford	28	80	20	17		- '	3	1	2		2	2	3	
	LEEDS	30	153	24	88	- m ,	-77	-3		5	14	1	3	4	
Į	SHEFFIELD	81	150	36	38		1	4	2	-	10	1	<u> </u>	5	
	HULL	24	63	16	17	且	3	-6	-	1	5	-	3	3	
1	SUNDERLAND	-24	47	12	12	-	-	.2	jpo	.3	3	1	1	3	
	NEWCASTLE-ON-TYNE -	23	59	11	11	1	1	-	-	1	2	· -	4	4	
-	DUBLIN	32	196	31	60	-	1	4	2	13	10	2	2	1	

TABLE 5 .- DEATHS in LONDON Registered in the SECOND Week of the Year 1871.

(3)

TABLE 5	-DEAT	HS in	Le	)ND	ON	Reg	giste	red	in the Second Week of the Year 1871.	
1	ie. i-70.	Sat	In t	he W	/eek	endin	ng , 187	1.	Saturday, January 14,	g 1871.
	Averages of the Second Week ithe 10 years 1861-70.			ths of		rsons			January Deaths of Persons of the Ages	
CAUSES OF DEATH.	erager ecoud 10 yes	ALL		nder	40,	30.	. 80.	and	CAUSES OF DEATH.	80°
	Av.	AGES.		20.	under	under (	16	rs ar	Han	ar ar
	- in	Mean Tem.	0-5.	-20.	and	40 and u	and	) Years upwards.	Tem. 10 000 nm np	o and under
Mean Temperature -	37.6		1	20	02		9	<u>∞</u>	Mean Temperature - 37.6 38.0 5 % %	09
ALL CAUSES SPECIFIED CAUSES	1702·4 1689·6	1896 1893		135	)	355	1 1		9. Stricture of Intestines - '5	2 +
I. ZYMOTIC DISEASES.									13. Hepatitis 3'2   1   -   -   1   -	4 - 4 1
ORDER 1.  1. Small pox  2. Measles  3. Secondar France (Secondarium)	15·2 39·5	135 27 77	62 25 57	36	32	4	1	-	16. Spleen Disease, &c '2 1 1	4 1
3. Searlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy	62.9 11.4 1.2	9	57 7 -	16	1 -		-	-	ORDER 5.  1. Nephritis 1.4 3 1 - 2 - 2. Ischuria5	
6. Croup 7. Whooping-cough 3.	17.6	15 38 10	14 35	1 3 2 5 2	1 -	- 4	1	-	3. Bright's Disease (Nephria) 9 1 16 - 8 4 6 4. Diabetes 2 2 2 2 - 2 - 5 Calculus (Stone) - 5 5	3 -
- Enteric or Typhoid Fever -	56.8	17 11 11	7 5 4	5 2	3 2 - 1	99 99	1 2	- 1	5. Calcinus (Stone)	1 1
9. Eryšipelas 10. Puerperal Fever (Metria) 11. Carbuncle 12. Influenza	3·9 ·6 1·2	3 -	3	1 - 1 - 1	3 -	1 1 1	-	1	Order 6.  1. Ovarian Dropsy '7 5  2. Uterus Disease, &c 4'0 5 5	
13. Dysentery	1'9 14'1	17	II.	ī	1	1	2	1	ORDER 7.  1. Synovitis (Arthritis) - '4 2	
16. Ague	9.0	- 7	= :	- 1	- 4		- 1	- 1	2. Joint Disease, &c. = - 3.9 4 - 3 ORDER 8.	2 -
19. Other Zymotic Diseases - ORDER 2.	-1		-	-	-		-	-	1. Phlegmon 2.3 3 1 2. Ulcer 1.9 2 1 1 3. Skin Disease, &c 1.3 3 2 1	1 1 -
1. Syphilis 2. Stricture of Urethra - 3. Hydrophobia 4 (Munders	7.8	4 -	4	1111			-		IV. DEVELOPMENTAL DISEASES.	
ORDER 3.	1.4	1	-		-	-	1	-	ORDER 1. 1. Premature Birth 24.7   14   14	
2. Want of Breast-milk -	8.0	3 6	3 1	3	1	1	-	-	2. Cyanosis 2·1 1 1 8. Spina Bifida 8 1 1 1	
4. Alco   a Del. Tremens - holism   b Intemperance - Order 4.	2.8	ī	1=		=	1	-	-	4. Other Malformations - 1'2 1 1 5. Teething 19'5 20 20	
1. Thrush 2. Worms, &c	2.6	5 -	5 -	-	-	-	-	-	ORDER 2.  1. Paramenia 1 2. Childbirth (see Puerperal ) 6·3 6 - 1 3 2	
II. CONSTITUTIONAL DIS. ORDER 1.									Fever) {	
1. Gout	2°1 14°9 27°4	17 33	5 -	- - 1	2 1	4 23	4 8	2		41 41
4. Cancrum Oris (Noma) - 5. Mortification	3.8	1	-	-	-	-	-	1	1. Atrophy and Debility - 62.5 60 46 1 - 5	8 -
ORDER 2.  1. Scrofula  2. Tabes Mesenterica	9:1	11 10	8 10	1	2	-	-	-	V. VIOLENT DEATHS, &c. ORDER 1.	
2. Tabes Mesenterica 3. Phthisis 4. Hydrocephalus	180·5 28·2	178 22	12 19	14	79	60	13	-	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions 21 2 15 1 8 5 1 2. Wounds - 6 2 - 1 1 -	5 -
III. LOCAL DISEASES. ORDER 1.									2. Wounds 7 6 2 - 1 1 - 3. Burns and Scalds 10 2 8 6 - 2 - 4. Poison 8	
1. Cephalitis	14°7 42°0	12 56	8 3	2 2	3 3	20	24	- 4	5. Drowning 2.6   4   - 1   - 2 6. Suffocation 10.0   16   12   - 1   2 7. Otherwise 4.0   3   - 1   2   -	1 1
8. Paralysis	34.8 2.8	6	-	1	-	3 -	28	3 1 -	ORDER 3.	
6. Epilepsy 7. Convulsions 8. Brain Disease, &c	8·9 59·0 21·0	3 74 21	74 3	1	1 - 2	1 - 7	9	-	(HOMICIDE.)  1. Murder and Manslaughter 1.3 3 3	
ORDER 2.	2.9	3	-	1	=	2	-		ORDER 4. (SUICIDE.)	
2. Aneurism 3. Heart Disease, &c ORDER 3.	82°3	109	2	7	13	40	43	4	1. Wounds {Gunshot - '2 2 . Poison 1'0 3 . Drowning '5 3 - 2 - 2 -	
1. Laryngitis 2. Bronchitis 3. Pleurisy	10.9 285.1 4.6	9 377	8 84	3	25	1 82			3. Drowning 5 3 2 - 4. Hanging 9 1 1 -	1 -
5. Asthma	105.8	91 39	54	6	11 3	10 20	9 15 9	1 -	ORDER 5.	
6. Lung Disease, &c ORDER 4. 1. Gastritis	20.4	28	12	2		4	9	1	(Execution.) 1. Hanging	
2. Enteritis	5.4	8 6 -	3 -	1 - 1	3 1 -	-	3		Violent Deaths (not classed) *3 1	1 -
4. Ascites 5. Ulceration of Intestines 6. Hernia 7. Heus	3·2 1·9 3·3	5 3 6 5		-	2 -	1 1 3	3 2	-		1 -
7. Heus B. Intussusception	2.9	5	=	1 -	-	1	2	-	Causes not specified or ill- defined 8.2 1 1 1	
	_	-		_			_	_		

NOTE.—Where a person is "tound drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes 14 Table 6. LONDON.-Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

													dui	ring	the	W ee	k en	ding
			during	during				The	DEAT	HS re	gister	ed in	the W	7eek i	nelud	Э		
REGISTRARS' SUB-DISTRICTS.		POPU- LATION, 1861.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Searlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON -		2,803,989	2357	1896	349	505	135	27	77	9	38	10	17	11	17	58	126	357
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS		458,125 618,210 383,321 571,158 773,175	388 509 216 563 681	300 496 174 412 514	69 64 25 85 106	78 154 50 88 135	24 39 10 46 16	8 6 1 9 3	13 23 6 10 25	1 - 2 2 4	7 6 5 11 9	5 1 1 3	5 7 - - 5	1 2 4 3	3 1 2 3 8	7 25 2 12 12	11 58 8 27 22	37 124 29 84 83
WEST DISTRICTS.  St. Mary Paddington H Kensington Town W  - Brompton H - St. Peter Hammersmith St. Paul Hammersmith H Fulham W  - Chelsea South H - Chelsea South H - Chelsea North-west HWW - Chelsea North-east  - Hanover Square - May Fair W - St. John Westminster H St. John Westminster W St. James's Square Golden Square Golden Square Gelden Square W - Bervick-street	a : :	39015 36769 51910 18198 5415 19104 15539 21654 19699 21886 19773 12885 55118 377483 30730 10753 13966 10907	47 16 74 16 2 30 23 20 19 7 7 7 7 7 28 31 22 6 13 9	37 15 32 9 1 15 6 13 23 14 7 4 26 41 29 6 3 5	13 4 5 1 2 3 4 4 2 1 1 6 1 6 4	8 5 11 2 - 3 2 5 9 6 1 1 6 6 5 2 2 2 2 2 2	1 1 11 110	11 1 2 1 2 1	11 00	1	1 1 1 1 2 2 1 1		1	1.	1111	2 2	3 3 1 1 2	3 4 - 3 - 4 8 2 - 8
NORTH DISTRICTS.  All Souls Marylebone H - Cavendish Square - Rectory Marylebone W - St. Mary Marylebone W - St. John Marylebone - Christchurch Marylebone - Hampstead WH - Regent's Park Paneras - Tottenham-court will - Gray's Inn Lase H - Somers Town Camden Town W - Kentish Town W - Islington West* WHH - Islington East Ww - Stoke Newington L - Stamford Hill West Hackney U - Hackney WHW - South Hackney L -		20052 20052 15790 26692 22493 34913 32540 19106 34927 22871 27803 30099 23266 44817 75442 79809 66° 8 5483 24265 5483 24265 51481 15458	21 6 22 32 21 20 12 16 18 17 17 20 53 65 83 8 2 21	21 4 32 7 21 18 28 24 29 16 19 33 41 73 69 6 6 6 6 6 14 30 5	212714 4 411638 98 1135	6 2 19 3 6 7 2 7 12 7 3 18 10 10 20 2 1 1	2 - 1 17 - - 3 11 2 - 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 1 1 - 1 3 5 - 2 3 -		2 2 1 1 1	5 .	1 2 1 1 1 1 1 1	1	101111111111111111111111111111111111111	24132144	21 - 12 - 41 8 4 7 5 11 7 11 2 5 1	1 6 17
CENTRAL DISTRICTS. St. George Bloomsbury - St. Giles South WH - St. Giles North - Long Are - Long Are - Charing Cross WH - St. Mary-le-Strand - St. Clement Danes H - St. George-the-Martyr H St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell W - Amwell Clerkenwell W - Pentonville - Goswell-street - Old-street - City-road HL - Whitecross-Street - Finsbury - St. Botolph East London - Cripplegate - St. Sepulchre WH - St. Bride W - Castle Baynard - Christchurch - Queenhithe - Allhallows Barking - Broad Street -		17392 19483 17201 11618 11071 1903 19903 19903 19903 17909 1	9 12 8 5 3 6 7 18 3 6 17 15 8 11 11 11 12 1 4 14 8 5 6 1 7	7 15 5 9 4 6 6 8 10 10 3 3 15 7 5 5 4 4 9 10 10 4 4 11 10 10 4 11 10 10 10 10 10 10 10 10 10 10 10 10	1112211311 311 322	371 222 4 8 221 - 3111 - 3 - 111 - 221	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1		211	77-12211

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

cur, namely,

W-Workhouse;

H-Hospital;

L-Lunatic Asylum;

u-A Workhouse not belonging to the district in which it is situated.

te-A Workhouse not belonging to the district in which it is situated. † Officials of Public Institutions are not included. \* The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

VER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 14th January 1871.

Saturday, 14th Sandary 1871.				-					-								
		during	ring				The I	)EATH	s reg	istere	l in t	he W	eek in	clude			
REGISTRARS- SUB-DISTRICTS.	POPU~ LATION, 1861.	Total Births du	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enterio (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti- tutions.
FAST DISTRICTS.   Holywell Shoreditch	17313 19188 26516 25777 23260 17310	12 10 34 25 28 27	12 13 18 18 23 13	3 1 4 4 6 3	1 2 5 2 8 3	1 2 5 6 6 3	2	1:	111111	- 2	111111	11111	11111	- 1	8 1 1 1 1 8	4 1	- 4 5 - 7 -
Hackney-road Green, Bethnal Green WHL† Church, sethnal Green Town, Bethnal Green	26298 31789 25528 21456	30 41 20 20	14 30 12 9	3 7 5	5 10 1 2	1 1 1 2	1111	1	1111	1 1	1 1 1	1111		1111	1111	1111	9 -
A tillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	5 13 11 10 6 11 8	3 5 19 4 13 8 5	1 5 2 2 4 1	1 7 - 1	3 2	111111	i i i i i i i i	1111111	111111	1111111	111111	î	11111	6 -	1 1 6 - 1	14 - 10 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	9 15 6	13 9 13	5 1 -	1 1 2	1 2	4	2	1	-	-		ī -	-	- 1 -		- - 8
Shadwell W	12537 16874 27161	6 15 26	12 .10 10	4 1 2	2 4 4	1 2 -		: = (		- 1	=	-	-	-		2 -	2 -
Mile End Old Town West Mile End Old Town East Ww	83747 39317	39 29	20 38	2 3	4 10	- 4	- 1	4	= .	1 -	1 -	-	<u>-</u>	1	1	8	11
Bow WwLt	35667 43529	61 46	43 25	10 5	10	1	1	1,	1.	1 2	-	-	ī	-	1	5	14
SOUTH DISTRICTS.   Christchurch Southwark   W -   St. Saviour Southwark   H -   -	17069 19101 19652 16668 19190 22675 44463 15082	11 7 15 21 11 14 35 14	7 9 14 12 11 9 37 11	1 2 5 2 2 2 9 1	3 2 2 2 3 2 13 3	111111		1 2 -	111111111	HÎ LU LI	11111111	- 1	1	1	1 1 1 2	1 - 1 3 2	2 - 4 1 - 14 4
St. Olave Southwark H	7663 11393 16696 16505 25154 24502	3 10 10 13 39 16	13 9 13 12 21 7	3 2 8 2	1 2 5 4 8 2	- 2 1 1		- 1 -: 1	111111	1	1, -1	11111		111111	101111	ī ī	12 3 - 4 - 1
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	9 28 11 22 31 16 17 12	7 12 8 27 24 16 11 7	1 5 1 6 8 5 8	1 2 1 16 6 5 3	1 1 1	1 - 1	2	1111111	1 - 1	1111111		1111111	1 1 1 1 1 1	2 2 - 1 - 1	2 3 - 1 1 1 -	1 12 -
Clapham	20894 19600 13346 6481 10082	30 45 18 4 7	14 34 12 4 7	2 7 2 1 3	6 9 2 -	ī	1 -	1 2 2 2	1	1	1	- - -		11111	1	1 1 1 1 1 1	4 2 -
	1723 21297 28135 20333	1 19 25 19	1 20 13 10	3 1 5	1 6 5 3	- 1 -		1111	1111	- 1		1111	1	- - 1	1111		9
St. Paul Deptford	37834 8139 21696 18306	40 4 13 15	26 4 12 16	5 1 3 -	6 - 5 5	1 -	1111	1	1	2 - 1 -	1111	1	1 -	1111	1111		9
Eltham Lee Lewisham Village W Sydenham	3009 11003 7372 10595	3 9 8 10	1 7 4 9	1 1 1 2	1 2 -		1111	2 - 2	1111		ī - -	- - 1				-	-
Charlton H Woolwich Dockyard H	9276 22919 18776 } 24502{	12 16 10 6	4 3 4 4 8	1 - 1	1 1	11111	1117	1 - 2 2	- 2	1	1111	11111		1			11111

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.
The Strand - , , Tottenham-court sub-district.
London City - , Islington East.

Do. do. - , , Hackney sub-district. Holborn Workhouse is in Hoxton New Town sub-district.

London City " (Mile End Old Town Eastern sub-dist. and Bow sub-district.

Stepney - " Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7. - MELECKULUGICAL OBSERVATIONS then at the ROTAL UBSERVATORY, GREENWICH, during me Week ending Sangragy, 14th JANDARY, 1871.

[Under the Superintendence of the Astronomer Royal.]

									M	eteoro	ologic	al C	)bse	er	vations.							
1			*euoz(			: :	. : . :	:	:-	:-	:	26			hose dry dry	aily	ults the well	age rva-	l as	ped,	k to ased d to was	1
RAIN.	Collected	7	-		Inches	00.0	0.00	00.00	10.0	00:0	Sum 0.08	95		Management and the same and the	to the name of the relation the start, the second into me.	e mean d	The resinclude	The aver	nderstood	ent stop	the weel y; decredecredecrease decrease	
Act of the same		Robinson's.	Horizontal Movement of Air	cuca day.	Miles.	149	205	164	215	345	Sum 1547	24			I to be 159 feet above the mean deced to be coincident with those The observations are taken at adjugs of the barometer, the dry finnes, are converted into mean Janus (classier, P.R.S. from five	1848. Th	edition.	to each. rmometri	o to be un	the Thames water are for the present stopped, asing to be used as an hospital.	nning of same da he 10th; on the 13	
17. 3.00 60	eters.	10000	Mean	24 Obs.	lbs.	0.0	0.0	0.0	0.0	Q. Q.	:	23			be 159 ( to be obser ss of the es, are	part 1,	ourth of in h. P.M.	oplied the the rs end	ons ar	re for hospi	e begi on the f. on t	
- Alleri	Anemom	00000	Least.		lbs.	0.0	0.0	0.0	0.0	0.0	:	555			siderec The readingse times	ans., I	les, Fox	eing aj from 50 yea	+ 18 re servati	ater a	at the P.M. 9h. A.N	
WIND.	d from	December	Great-		lbs.	0.1	1.4	0.5	0.3	62	:	[2]			ure con meter, of the at the	Phil. $T_i$	yal Tab ibers e	tions b laisher in the	ical ob	be used	9.44in by 9h in. by 30.06in	
	As deduced from Anemometers	Sler			WWW PATE	NNE.&W	SW. S.& SE N. & N W.	N. NNW.	WSW. &	SW.&	ariable.	0.6	NOTES.		conster is considered to be 159 feet above the mean barometer are considered to be coincident with those andard barometer. This observations are taken at The means of the readings of the barometer, the dry ar, observed at these times, are converted into mean extions deduced by James (daixier, F.R., from five	er 31.—See I	fygrometric or the num end at 9h. A	oper corrected by Mr. Greenwich,	meteorolog ht to midni	of the Tha	to 29.43 in. ed to 29.60 creased to	
,		Goneral Disortion	A. M.		WSW	SW. &S.	NNW.& WSW E.& NNE.	NNE.	WSW.	SW.	Vari	19			The height of the distern of the barometer is considered to be 159 feet above the mean there of the united set. The readings of the hanometer are considered to be coincident with those of the Royal Society's thint glass standard harometer. The observations are taken at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry disconnection, and the weet thermometer, observed at these times, are converted into mean dairy values by the application of corrections deduced by James (daistier, P. R.S. from five	45, December	we bulb thermometers by Ghasher's Hygrometrical Halles, Fourth edition. The results for mean daily temperature of the any of the hydrotherness exhibited in column 7, include the everything of the day thermometer exhibited in column 7, include the experience of the day thermometer exhibited in column 7, include the set the result of the day thermometer read at 9 h. Art. not 3 h. Art. and 3 h.	he soft-existence treated room to market minimum internatively, sectionally average temperature of the air is that determined by Mr. Glaisher from the thermometrical observations taken at the Royal Uservation; direction, in the 60 years entire ISBs. December 31.	than the average. The results of all the meteorological capplying to the civil day, or from midnight to midnight.	The observations of the temperature of the Thames water are for the owing to the Dreadnought Hospital Ship ceasing to be used, as an hospital.	The reading of the barometer decreased from 29'44in, at the beginning of the week to 29'38in. by non on the 8th; increased to 29'48in. by 9h. r.M. on the same day; decreased to 29'21in. by noon on the 9th; increased to 29'60in. by 9h. A.M. on the 10th; decreased to 29'24in. by 9h. A.M. on the 10th; decreased to 29'24in. by 9h. A.M. on the 18th; and was	ek.
Degree	-	Satura- tion being	repre- sented by 100.	_	. 60	91	68	68	81	06	20	18			oistern ne readin ty's flin ".M.; and ne wet t	oding 18 of hun	ters by kerature dry ther	hermomeric is that coyal Ob	he result day, or f	of the te ought Ho	e baron the 8th on the 9d n the sa	of the we
EQ.	Between mean tem-	perature of the day and mean tem-	the same day		00	8.6	- 4·0 - 4·1	- 7.3	6.5	+ 4.0	0.8	17			The height of the level of the sea. The of the Royal Societ of the Royal Societ A.A., noon; 3h, 7hermometer, and the daily values by the idaily values by th	rvations e	thermome daily temp ns of the	ristering to re of the s	verage. To the civil	arvations he Dreadn	ding of the noon on by noon or y 9h, P.M. c	y the end
DIFFERENCE			Least.		00	1.4	0.0	5.6	5.5	1.2	1.6	16			he height of the line Rolling RA.M.; remome y value	s obse	bulb mean grvation	self-reg peratu s take	the a	he obsa ng to tl	he rea 8 in. b 9 21 in 24 in. b	8 in. b
DIF	Between Dew Point Temperature	Air Temperature	Great-		0.0	9.1	5.0	8.5	2.9	10	E-00	15				year		the tion		T owi	29.3 to 2	29.6
1	Betwe	Air 7	Mean daily value.		.0.	- 67	6.3	3.0	5.0	6.7	3.4	14			Light		Solar	heavily	Slightly foggy			
~ 8:	Water of	the Thames at Greenwich, by self-registering	Thermometers		. 0	: :	: :	:	:	:	:	.13			t, and 9h. 10m. A.M. Overeast at night.	ally.	morning	, and very		1. P.M.		
	In the	Greens	Therm		. 0	::	::	:	:	:		12	HERE		id 9h. 1 reast at	occasion	in the	the day	at nigh	ı. <b>s</b> nd 8}		
TERS.				meter.	0.70	26.92	22.1	17.6	17.7	33.5	24.4	11	ATMOSPHERE.	-	8h. 45m. an	snow fell	snow fell	during	Cloudless at night.	etween 61		
READINGS OF THERMOMETERS	Highest in the sun, as	a self-regis- tering	d d uo,	Grass.	0.0		41.7		40.1	56.5	48.9	10	AND		now fell between 8h. 45m prevalent during the day.	A little thin snow fell occasionally	A little snow fell in the morning.	Snow fell occasionally during the day, and very heavily and 10h. P.M.	luring the morning. Cloudlessing, and snow fell occasionally.	Rain fell between 6h. and 8h. P.M.		
IGS OF	Dew Point,	Mean	daily value.	_	90.7				25.0	37.4	29-7	6	SKY		snow fell prevalent	elondy.	+5	Snow fell occ and 10h. P.M.	ing the	roughout.	cloudy.	
READIN		Moan	dai	_	0,2	88	31.	28.	30.0	40.3	33.0	00			ttle sno were pr		dy thro	dy. Sn n 9h. au	cast dur norning	Cloudy thro		
1	Dry.	Range	in day.				9.6		19.1	8	0.6	-			A little sr	Generally	Cloudy thi	Cloudy. between 9h.	Overcast din the morni	Clou	Gene	
	٩	_	Low- est.	_	00.00	30.3	30.6	23.0	18.3	0.98	28.2	9						was				
			High-	-	20.0	0.98	36.2	32.3	38.0	44.8	37.2	10	CITY.					paratus			-	
BARO-	Mean	(cor-	duced to 32 degr. Fahren-	II neit).	in. 0	29.307 36.0	29.447 36.2	29.995	30.024	29.758	29.62	4	ELECTRICITY					etrical ar				
Moon.		Phases	2			::	::		In	Last	:	80	EL					The electrical apparatus was				
			DAY.	1					. 13	. 14		nmns			00	6	01	Ħ ·	12	18	7.	
	1	1871	MONTH AND DAY.	Tantana	CANUA	MONDAY.	TUESDAY .	THURSDAY.	FRIDAY	SATURDAY.	NEANS	No. of Columns	DATE.	JANDARY.	SUNDAY .	MONDAY .	TUESDAY .	Wednesday	THURSDAY.	FRIDAY .	SATURDAY.	

LONDON: Printed by GEORGE E. EYRE and WILLIAM SPOTTISWOODE, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Office.

# WEEKLY RETURN

AND IN NINETEEN OTHER LARGE TOWNS
OF THE UNITED KINGDOM.

By Anthocity of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.O.

No. 3. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JANUARY 21. [Price 1d.

General Register Office, Somerset House, 23d January 1871.

During the week ending Saturday the 21st instant, 5230 births and 4376 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom; and the aggregate mortality of the week was in the ratio of

31 deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, stated in the order of their topographical arrangement, were as follow:—London 30 per 1000; Portsmouth 12, Norwich 31, Bristol 29, Wolverhampton 22, Birmingham 34, Leicester 30, Nottingham 28, Liverpool 51, Manchester 29, Salford 33, Bradford 29, Leeds 26, Sheffield 25, Hull 31, Sunderland 27, and Newcastle-upon-Tyne 28. Small-pox caused 257 deaths last week in these seventeen towns, an increase of 82 upon the previous week; of these 257 deaths, 188 occurred in London, 65 in Liverpool, 2 in Manchester, and one each in Salford and Hull. The annual death-rate from this disease last week in London was 3 per 1000 of the estimated population, while in Liverpool it was 7 per 1000.

In Edinburgh the annual rate of mortality from all causes last week was 30 per

1000 persons living, in Glasgow 33 per 1000, and in Dublin 35.

It is now 191 days since the Weekly Returns from Berlin, and 126 days since those from Paris, were discontinued on account of the War. In Vienna the annual rate of mortality during the week ending 7th instant was 35 per 1000, the mean temperature of the week being so low as 15·8° Fahrenheit. In the City of Bombay the deaths registered during the week ending 27th December last were 284 (exclusive of still-born), and the mortality was at the annual rate of 18 per 1000. In the City of New York the deaths registered in the week ending 31st December were 486, and the equivalent annual rate of mortality was 27 per 1000.

In London the births of 1187 boys and 1175 girls, in all 2362 children, were registered last week. The deaths registered were 1846, showing a decline of but 50 upon those in the previous week. During the corresponding weeks of ten previous years the registered births averaged 2114, and the deaths 1667 per week; after making due allowance for increase of population, the average for the past week is estimated at 2325 births and 1834 deaths; the registered births, therefore,

were 37, and the deaths 12, above the estimated average.

Zymotic diseases caused 453 deaths, including 188 from small-pox, 17 from measles, 68 from scarlet fever, 6 from diphtheria, 51 from whooping-cough, 5 from typhus, 12 from enteric (or typhoid) fever, 1 from relapsing fever, 16 from simple

continued fever, and 17 from diarrhœa.

The fatal cases of small-pox in London last week showed an increase of 53 upon those returned in the previous week; in the eight weeks ending last Saturday the deaths from this disease have averaged 95 per week. In the two small-pox hospitals at Islington and Hampstead, 5 and 17 deaths were respectively registered last week. After distributing these 22 fatal cases among the districts from which the patients were admitted, it appears that of the 188 deaths, 72 belonged to the East group of districts, 40 to the West, 30 to the North, 29 to the South, and 17 to the Central. The number in each of these groups of districts showed a nearly equally large increase upon the previous week, except in the Central districts, where the increase was comparatively small. The death register only gave information, as to vaccination or otherwise, in 83 of the 188 fatal cases of small-pox last week; of these 66 were returned as unvaccinated, and, assuming that the same proportion prevailed in the whole 188 cases, it follows that 142 of these deaths last week were of children or adults who had not had the protective advantage of vaccination. Dr. J. H. Bridges, Poor Law Board Medical Inspector for the Metro-

[3,] .....

politan District, in a recent report gives some statistics upon the relative mortality among vaccinated and unvaccinated cases which cannot be too generally known. Between the 1st December and the 6th January 286 small-pox patients were admitted into the hospital at Hampstead, of these 196 had been vaccinated, 84 were unvaccinated. Among the vaccinated the deaths were 8, or 4 per cent.; among

the unvaccinated 27 deaths, or 32 per cent., occurred.

Eight fatal accidents caused by horses or vehicles in the streets were returned last week: a messenger, aged 42 years, died on the 1st instant in St. George's Hospital, from injuries through being knocked down and run over by a Hansom cab in the Fulliam-road five days previously; a retired grocer, aged 67 years, died in Westminster Hospital on 12th, from a scalp wound and general shock received by falling under the wheels of a coal wagon 20 days before; an oyster seller, aged 76 years, died in St. Bartholomew's Hospital on 14th, from fracture of the right leg through being run over by a cart in Victoria-street, City, a week before; a furrier's traveller, aged 44 years, died on 17th instant at St. Bartholomew's Hospital, from fracture of the skull through being knocked down by a horse which had taken fright at a steam whistle on the Metropolitan Railway at Aldersgate-street two hours previously; the son of a packer, aged 13 years, died on 11th instant in Priory-street, Bromley, from injuries through being knocked down and run over by a two-horse loaded van; a labourer, aged 71 years, died on 14th in Poplar Hospital, from the shock of being run over by a one-horse unladen cart; a hawker died on 15th in Little Duke-street, London-road, from internal injuries through being knocked down by a carriage near Belgrave-square; and the widow of a blacksmith, died on 14th in Guy's Hospital, from fracture of the jaw through being run over by a van in Red Cross-street.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.15 in.; the highest was 29.68 in. on Sunday, and the lowest 28.70 in. on Monday. The mean temperature of the air was 37°1, or 0°3 above the mean temperature of the corresponding week in 50 years (1814-63) as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 46° 7 on Monday; the lowest night temperature was 30° 7 on Thursday; the entire range of temperature in the week was, therefore, 16°0. The highest temperature in the sun was 79°8 on Wednesday. The mean temperature was above the average on the four first days of the week, while there was a deficiency on Thursday, Friday, and Saturday; on Monday the mean temperature was 39° 8 and 3° 3 above the average, while on Thursday it was 34° 6 and 2° 3 below the average. The difference between the mean dew-point temperature and air temperature was 2°.0. The mean degree of humidity of the air was 93, complete saturation being represented by 100. The general direction of the wind was S.S.W., and the horizontal movement of the air averaged 13 miles per hour. Rain fell on each day of the week, except Saturday to the amount of 1.32 in. in the six days; most of this, to the amount of '63 and '45 of an inch respectively, fell on Monday and Tuesday.

The temperature of the water in the Thames is ascertained by the use of self-registering thermometers suspended from the side of the "Scorpion" Police Ship at the depth of about 2 feet below the surface; the readings are taken under the superintendence of the Resident Inspector on board the Ship, by permission of

Lieut.-Col. Henderson, R.E., C.B., Commissioner of Metropolitan Police.

The mean temperature of the week in the other large English towns furnishing returns ranged from 32°·7 in Hull, to 38°·5 in Portsmouth; the lowest recorded night temperature was 18°·0 in Hull, and the highest day temperature in the shade was 48°·2 in Portsmouth. Rain fell in all the towns furnishing returns except Newcastle-upon-Tyne; the amount measured ranged from ·08 of an inch in Norwich to 1·55 inches in Portsmouth.

In Centigrade degrees the mean temperature of the air last week at Greenwich was  $2^{\circ} \cdot 84$ ; the highest day temperature in the shade was  $8^{\circ} \cdot 16$ ; the lowest night temperature was  $-0^{\circ} \cdot 72$ ; the highest temperature in the sun was  $26^{\circ} \cdot 56$ . The mean temperature of the week on an average of 50 years was  $2^{\circ} \cdot 66$ , or  $0^{\circ} \cdot 18$  above the temperature of last week. The wind blew at the rate of 21 kilometres an hour, and the rain-fall was  $3 \cdot 35$  centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 365,135 cubic metres, and at Barking 239,902 cubic metres, equiva-

lent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered Last Week, and in the Third Week of Ten previous Years.

Тотаг Births  Males  Females	1861 	1862 1996 1007 989	1863 1931 984 947	1864 2076 1063 1013	1865 2122 1053 1069	1866 2246 1149 1097	1867 2189 1131 1058	1868 2202 1129 1073	1869 2276 1125 1151	2239 1130 1109	Average of 10 Weeks.  2113.6 1071.0 1042.6	2362 1187 1175
Total Deaths  Males Females	1926	1391	1477	2180	1585	1569	1714	1596	1578	1652	1666·8	1846
	924	677	739	1007	818	768	817	800	781	842	817·3	915
	1002	714	738	1173	767	801	897	796	797	810	849·5	931

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tent's part for increase of population.

TABLE 2. L()NDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

		_	and the last of th	THE RESERVE AND PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF T	Columbia Company			and the latest teacher to	-	THE RESIDENCE	CONTRACTOR OF THE PARTY.	MERICAN COLOR	-
1 1 1 3	Oct. 29.	Nov. 5.	Nov.	Nov. 19.	Nov. 26.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec.	Jan.	Jan. 14.	Jan. 21.
TOTAL Deaths	1266	1343	1468	1639	1652	1482	1586	1737	1377	1760	1828	1896	1846
Deaths under 5 years of age - Deaths 5-20	537 123	568 141	644 136	674 150	712 131	629 1:6	647 159	688 154	540 143	672 150	651 142	660 135	650 156
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & n <sub>i</sub> -wards	159 225 179 43	203 198 190 43	195 236 22:) 37	219 276 265 55	212 214 293 60	193 222 255 52	219 239 280 42	253 278 301 63	205 215 218 56	250 294 322 72	242 330 391 72	241 355 412 93	271 294 377 98
Deaths from Small-pox ,, Measles ,, Scarlet Fever ,, Diphtheria ,, Whooping-cough	21 13 167 9	23 27 174 7	40 19 150 4 20	45 36 162 10 28	41 24 122 5 26	60 33 120 11 25	61 27 116 7 32	44 27 135 9 44	82 25 104 6 33	110 29 110 8 49	79 34 112 4 36	135 27 77 9 38	188 17 68 6 51
", Typhus fever - ", Enteric (or Ty-) phoid) fever -	6 24 7	10 20 15	13 19 8	12 22 13	6 28 10	12 21 15	12 26 16	9 23 15	16 30 12	10 21	10 18 9	10 17	5 12 17
" SimpleContdfever " Diarrho a " Simple Cholera -	29	16	13	18	18	12	13	12	9	6	19	17	17
" Phthisis Bronchitis Pueumonia - , Heart Disease -	136 117 78 70	148 120 81 61	154 196 95 75	176 216 107 81	165 257 116 75	144 222 89 79	167 244 101 71	173 249 114 74	144 174 75 57	185 265 105 88	186 319 93 102	178 377 91 109	155 309 89 93
Mean Temperature of the Air	48.2	44.1	39.1	37.6	46.8	38.9	32.5	42.8	33.0	25.7	31.1	33.0	37.1
Mean Temperature of the Water of the Thames			_		_ '	-	-		_	_	_	-	_
Humidity of the Air	88	90	90	90	87	87	89	92	78	85	84	87	93
Rain-fall in inches	1.16	0.47	0.04	0.18	0.95	0.01	0.84	1.70	0.17	0.42	0.07	0.08	1.32

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C.M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Bsq., F.R.A.S., F.M.S., Eccles, near Manchester; G.V. Vernon, Esq., F.R.A.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne,

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday,
21st day of January 1871, in the following large Towns.

		21st day o	f Janua	ry 1871, ii	the follow	wing la	rge To	WNS.			3
CITIES	Area	Estimated Population	Persons	BIRTHS registered	DEATHS registered		TURE OF	THE AIR.	TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FAI
BOROUGHS.	in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 21st Jan. 1871.	during the Week ending 21st Jan. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Cm
Total of 20 Towns in the United Kingdom -	213,281	7,336,961	34	5230	4376	48.2	18.0	35.6	2.01	0.24	1
LONDON	77,997	3,258,469	42	2362	1846	46.7	30.7	37.1	2.84	1.32	3
PORTSMOUTH	9,513	125,464	13	74	29	48.2	31.4	38.2	3.61	1.22	3
Norwich	7,472	81,787	11	61	48	43.2	26.0	34.5	1.39	0.08	. 0
BRISTOL	4,688	173,364	37	122	95		-	·		-	
WOLVERHAMPTON -	3,387	74,438	22	48	32	43.2	27.3	35.1	2.73	0.75	1
BIRMINGHAM	7,831	378,574	48	273	248	44.0	27.7	36°3	2.39	0.23	1
LEICESTER	3,200	101,367	- 32	91	58	43.7	25.0	34.2	1.39	0.56	1
NOTTINGHAM	1,996	90,480	45	60	49	44.6	25.8	36.0	2.22	0.24	0
LIVERPOOL	5,108	526,225	103	422	510	43.4	26*2	34.9	1.61	0.56	1
MANCHESTER	4,486	379,140	85	256	211						
SALFORD	5,172	123,851	24	119	79	43*4	21.8	34.4	1.33	0.45	1
BRADFORD	6,590	148,030	22	69	81	45.8	28.2	36.7	2.61	0.12	0
LEEDS	21,572	266,108	12	182	135	47.0	28.0	37.9	3.58	0.37	0
SHEFFIELD	22,830	255,247	11	193	124	44.5	25.9	36.0	2.22	0.66	1
HULL	3,562	135,195	38	93	80	42.0	18.0	32.7	0.39	0.26	0
SUNDERLAND	3,306	103.037	31							_	
NEWCASTLE-ON-TYNE	5,336	136,293	26	71	54	43.0	23.0	33.4	0.78	0.00	0
EDINBURGH	4,427	179,944	41	96 138	73 104	43.0	29.0	36.1	2.28	0 00	
GLASGOW	5,063	477,627	94	363	302	43.2	26.6	35.2	2.95	0.38	6
DUBLIN	9,745	322,321	33	137	218	44.0	28.0	36*4	2.44	0.87	2
PARTS	70.070	7 000 040									
PARIS	19,279	1,889,842	98		4014	السلا		15.8+	-9.00+		. 1
BERLIN	9,212 15,451	622,087 800,000	68 52		421†			19.0T	-9 00T	-,	1
DERLIN	10,401	800,000	52	Brotalia	_					-	3

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probe available before the middle of the year, and will then be substituted for these estimates.

† The facts for Vienna relate to the week ending 7th January.

There A. Drigwa and Digram on Managers in 17 has France Warners and in Day

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Wending Saturday the 21st day of January 1871.

	ANNUAL RATE	-			Th	e DEA	rns reg	istered	in the	Week i	nclude		
BOROUGHS, &c.  (Municipal Boundaries for all except London.)	of MOR- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.
Total of 17 Towns -	31	3752	789	958	257	54	147	11	110	104	37	155	278
London	30	1846	343	475	188	17	68	6	51	34	17	64	116
PORTSMOUTH	12	29	6	10	-	-	2	-	1	-	-	1	1
Norwich	31	48	5	15	-		8	-	6	1	-	-	2
BRISTOL	29	95	21	25	-	2	6			-	no.	6	6
Wolverhampton -	22	32	7	7	-	-	-	-	_	1	_	-	2
BIRMINGHAM	34	248	54	45	-	9	7	1	14	-	3	45	58
LEICESTER	30	58	14	15		-1	5	-	1	3	1		/ 1°
NOTTINGHAM	28	49	8	19		-	3	,	-	2	-	1	9
LIVERPOOL	51	510	127	166	65	18	19	_	22	35	8	14	24
MANCHESTER	29	211	50	47	1	2	4		1	10	3	5	15
SALFORD	33	79	20	. 11	2	-	5	1	2	2	1	-	3
BRADFORD	29	81	20	13	-	5 -	5	1	1	4	1	1	8
LEEDS	26	135	35	32	~	4	6	1	4	3	1	9	14
SHEFFIELD	25	124	32	30	-	2	3	-	3	6	1	1	11
HULL	31	80	20	14	1	-	4	_	-	-	_	3	4
SUNDERLAND	27	54	14	13	2.1		1	1	2	2	1	3	4 3
NEWCASTLE-ON-TYNE -	28	73	13	21	~	-	1	1944	2	1	-	2	3
DUBLIN	35	218	39	56	-	1	10	-	. 9	13	4	6	6

TABLE 5 .- DEATHS in LONDON Registered in the THIRD Week of the Year 1871.

LADIN	10111				100	. 1		31010	ed in the Thiab Week		1 car	10,	1.				
	ie 31-70.	Satu	In t	he V	Veek nuar:	endi y 21,	ng 1871.			ne 11-70.	Sat	In t	he V y, J	Veek inua	endi ry 21	ng , 187	1.
	of th Week urs 186		Dea	ths o	f Per	rsons	of			s of tl Week trs 186		Dea	ths o	of Per	rsons	of	
CAUSES OF DEATH.	Averages of the Third Week the 10 years 1861-70.	ALL AGES.	Un 20	der	under 40.	er 60.	er 80.	and	CAUSES OF DEATH.	Averages of the Third Week the 10 years 1861-70.	ALL AGES.	Une 20		under 40.	er 60.	er 80.	and
	A in th	Mean Tem.			d und	d under	d under	v Years		in th	Mean Tem.				d under	and under 80	Years
Mean Temperature –	37.3	37.1	0-6.	5-20.	20 and	40 and	60 and	4 80 Y	Mean Temperature -	37.3	37.1	0-5.	5-20.	20 and	40 and	60 an	80 Y
ALL CAUSES	1666.8	1846	650	156	271	294	377	98	9. Stricture of Intestines -	1.0	1	1	-	-	-	-	ŀ
SPECIFIED CAUSES	1647.6	1840	644	156	271	294	377	98	11. Stomach Disease, &c 12. Pancreas Disease, &c 13. Hepatitis	6.9 .1	6 -	1 -	-	1	-	4 -	E
I. ZYMOTIC DISEASES. ORDER 1.				ı					14. Jaundice	3°2	8 14	4	1	3	- 5	3 4 1	1
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	15.5 36.2 61.6	188 17 68	81 15 44	52 1 19	44 1 3	8 - 2	3 -	Ē	16. Spleen Disease, &c ORDER 5.	-1	1		_	-	_	1	
4. Diphtheria	10.5	6	3 -	3	=	4 1 1	1 - 1	۹	1. Nephritis	1'7	4	1 - 1	1	0	2	- 5	ŀ
6. Croup 7. Whooping-cough 8. Typhus )	16.8	11 51	10 49	2	- - 4	-	-		3. Bright's Disease (Nephria) 4. Diabetes 5. Calculus (Stone)	9'4 2'4 '5	18 2 1	-	3	8 -	5 -	1	Ė
<ul> <li>Enteric or Typhoid Fever</li> <li>Simple continued Fever</li> </ul>	54.6	12 17	64	1 2 1 1 4	4 2 6	8 2	1	B	6. Cystitis 7. Kidney Disease, &c	1·2 9·5	1 5		2	ī	-	1 2	E
9. Erysipelas 10. Puerperal Fever (Metria) 11. Carbunele	6·1 5·0 1·3	23 7	12	ī	5	5	1 -	1	ORDER 6. 1. Ovarian Dropsy	.9	_	_	_	_	_	_	Ī
12. Influenza	3.3	1 2	ĩ ~		1	=	ī	E	2. Uterus Disease, &c ORDER 7.	3.1	5	Ē	_	2	3	_	E
14. Diarrhœa	13·1 ·5 ·2	17	10	-	-	1 -	4 - 2	1 -	1. Synovitis (Arthritis) - 2. Joint Disease, &c	·2 4·7	7	ī	4	ī	1	<u>-</u> .	Ē
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases - Order 2.	9.9	2 1	1	-	2 -	-	-		ORDER 8.  1. Phlegmon	1.4	2 -	Ē	-	1 1	2	-	I
1. Syphilis 2. Stricture of Urethra - 3. Hydrophobia	8.2 1.3	8 2	8 -	-	-	2			IV. DEVELOPMENTAL								
I. Glanders ORDER 3.		=	=	-	=	_	_	E	DISEASES. Order 1.								
1. Privation 2. Want of Breast-milk -	1·7 8·2	6	- 6	_	-	-	-	-	1. Premature Birth 2. Cyanosis 3. Spina Bifida	21.8	26 2	26 1 1		ī	-	-	-
3. Purpura and Scurvy - 4. Alco-ya Del. Tremens - holism b Intemperance -	1.6 2.0 1.2	6 2 2 2 2	2 -	-	- 1	2		-	4 Other Malformations - 5. Teething	1.1	1 22	1 22	-	-		=	-
ORDER 4.	2.4	1	1		-	-	-	-	ORDER 2.	•4	-		_	_	_	_	Ī
2. Worms, &c II. CONSTITUTIONAL DIS.	2	-	_		~	_			2 Childbirth (see Puer- peral Fever) }	4.9	16	-		16		-	Ŀ
ORDER 1.	1.8	2 13	-	-	-	-	1	1	ORDER 3. 1. Old Age	82.0	85	-	-	-	-	43	42
2. Dropsy 3. Cancer 4. Cancrum Oris (Noma) -	14.9 30.0 .7	22	1 -	3 -	2 -	3 13 -	5	-	ORDER 4.  1. Atrophy and Debility -	58.7	55	48	-	-	-	7	_
5. Mortification ORDER 2.	4.2	7	-	-		2	4	1	V. VIOLENT DEATHS, &c.								
1. Serofula	6.5 15.1 181.5	11 12 155	8 10 9	1 17	77	41	11		ORDER 1. (Accident or Negligence.)								
4. Hydrocephalus	29.4	26	23	2	1		-	-	1. Fractures and Contusions 2. Wounds 3. Burns and Scalds	14:0 :6 10:3	23	- 7	2	2 1 2	11 1	8	-
ORDER 1.									4. Poison	3.8	10 2 5	-	- 2	2	- 1	-	-
1. Cephalitis	13·7 37·6 38·0	23 54 50	17 4 -	3	3 3	3 11 15	27 25	6 7 1	6. Suffocation 7. Otherwise	10.3	9	8	-	-	1	2	-
4. Insanity	1.8	3	-	ī	3	-	-	-	ORDER 3. (Homicide.)								
6. Epilepsy 7. Convulsions 8. Brain Disease, &c	6.3 51.8 18.2	67 17	66	1 2	2	- 6	2 - 2	- 1	1. Murder and Manslaughter	2.6	2	1	_	1	-	-	
ORDER 2.	2.2	3	-	2	1	-	-	-	ORDER 4. (SUICIDE.)							,	
2. Aneurism 3. Heart Disease, &c	3·0 76·2	93	1	7	18	1 22	40	5	1. Wounds { Gunshot - Cut, Stab -	1.5	1 2	Ξ	-	1	1	Ξ	-
ORDER 3. 1. Laryngitis 2. Bronchitis	7.5	10 309	8 64	1 2	1 20	75	125	23	2. Poison 3. Drowning	1.8	2	=	1	-	1	-	-
3. Pleurisy 4. Pneumonia	4°5 106°5	89	44	6	2 11	16	1 12	-	5. Otherwise ORDER 5.	-1	1		-	1	_	_	_
5. Asthma	16.8	24 15	6	1	2	3	3	3	(EXECUTION.)  1. Hanging		-	_	_	-	-	_	-
1. Gastritis 2. Enteritis 3. Peritonitis	2·2 4·8 5·3	2 4 5	ĩ	-	- 1	1 1 3	1	1	Violent Deaths (not classed)	•3	-		_	_	-	-	
4. Ascites 5. Ulceration of Intestines -	3.2		-	-	ī	- 1	1	1	Sudden Deaths (Cause un-)	4.9	3	3	-	-	-	Ē	-
6. Hernia — — — — — — — — — — — — — — — — — — —	4·9 3·3 1·1	3 6 3 1	-	- 1	2 -	1 1 2 -	1 -	1 -	causes not specified or ill- defined	14.3	8	3	-	-	-	-	-
			8	-	1	1	1	į .							4		

TABLE 6. LONDON .- POPULATION, BIRTHS, DEATHS from ALL CAUSES, and from SMALL-POX, MEASLES, SCARLET

			II.									au	ring	tne	vv ee	k end	nng
		during	during				The :	DEAT	ns re	gistere	d in t	he We	ek in	clude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total Births dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence,	Inquest Cases.	In Public Insti- tutions.†
LONDON	- 2,803,989	2362	1846	343	475	188	17	68	6	51	5	12	17	17	64	116	319
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	- 458,125 - 618,210 - 383,321 - 571,158 - 773,175	383 515 220 509 735	306 412 233 432 463	61 75 47 72 88	77 124 49 96 129	35 45 12 67 29	4 1 3 2 7	10 16 6 12 24	1 3 1 - 1	6 7 7 21 10	1 1 2 1	2 4 1 5	3 3 - 6 5	4 - 2 6 5	11 12 10 15 16	11 30 18 28 29	51 69 53 89 57
WEST DISTRICTS.  St. Mary Paddington WH	39015 - 36769 - 51910 - 51910 - 51915 - 19104 - 15539 - 21654 - 19899 - 21886 - 19873 - 12885 - 5118 - 37483 - 30730 - 10753 - 13966 - 16607 - 17426	46 11 68 17 6 25 18 25 13 19 8 16 34 81 10 ·3 15 6	37 14 38 9 3 14 8 5 18 11 11 6 46 43 21 2 10 5 5	8 16 -12 -45 11 9 10 7	12 13 3 1 5 3 -9 2 3 1 8 2 3 1 4 1	2 2 2 4 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 2 1 2 1 1 1	111111111111111111111111111111111111111	1	1114 1111 171 111111		1	3 1	7711	1 2 - 6 1 1	53441-538184
NORTH DISTRICTS.  All Souls Marylebone H	29952 - 15009 - 26692 - 22493 - 34918 - 34918 - 34927 - 29871 - 29871 - 29871 - 77842 - 77842 - 77842 - 77842 - 7989 - 6609 - 6609 - 6483 - 24205 - 31481 - 1648	17 7 16 21 19 17 14 20 23 22 25 15 56 75 90 6 3 13 40 16	13 9 20 11 20 14 29 18 23 17 14 10 34 47 4 2 21 40 17	2 2 4 1 2 3 4 5 3 10 6 10 7 3	52 138 73 6 4 5 7 5 4 9 11 18 1	3 17 1 1 1 7 4 - 2 5 4	0000	1 2 3 1 3 2 3 3 4 1		111221	1	1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 - 2 1 - 1 2 1	1 2 2 2 1 3 4 4 - 2 1 2 2 1	11 18 9 3 4 4 9 5 7 7
CENTRAL DISTRICTS.  St. George Bloomsbury - St. Giles South WH St. Giles North	17892 - 19483 - 17201 - 11618 - 11071 - 10346 - 15207 - 19902 - 12942 - 17250 - 13079 - 14778 - 14778 - 14786 - 14778 - 1990 - 11504 - 17860 - 14778 - 1995 - 17860 - 18595 - 18595 - 18595 - 11544	7 21 3 9 3 4 6 14 10 2 13 12 17 15 8 8 26 7 5 9 10 3 7	6 12 7 7 2 4 4 6 6 21 15 7 7 18 111 11 12 7 7 10 12 29 4 1 1 1 1 1 1 2 2 2 2 2	12 21 42 - 55 58 - 23 58 1431	141 11 44 44 12 22 22 11 33 31 34 47 1 1	2 11 2 3 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 6 1	3 7 1 6 9 9 - 4 4

<sup>\*</sup> The Small-pox and Fever flospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLENCE, &c., registered in each Sub-district

23

Saturday, 21st January 1871.																	
		during	during			!	The L	EATH	s regis	tered	in the	Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhoa.	Violence.	Inquest Cases.	In Public Insti- tutions.
Holywell Shoreditch	17813 19188 26516 25777 23260 17310	12 14 25 26 24 13	12 18 20 19 19 14	3 4 2 4 2	2 1 7 2 9	2 6 4 10 1 5	1	1 - 1	11111	1,(1111)	1		13-11-11	- 2	- 3	1 - 5	37 7
Hackney-road Green, Bethnal Green Willt Church, Bethnal Green	26298 31789 25528 21486	17 35 21 15	13 23 18 7	2 4 2 1	1 6 4 1	4 2 1 3		1 1		2 - 1 -	1111	1111	1	1	1111		10
Artillery Whitechapel Soitalfields	6557 15709 15892 12122 8062 11166 9971	3 9 12 11 5 8	2 8 16 4 19 9 4	1 5 1 -4	1 1 2 - 5	1 1 2 1 1 - 2	111111		1111111	1 1	1	111111	111/111	<u>-</u>	1 8 -	3 1 7 -	- 8 - 16 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	16 12 3	9 8 14	3	1 3 4	1 1 2	=	ī -	=	2 1 -	-	-	- 1	-	111	- 1	9
Shadwell W Ratcliff IVH Limehouse W	12587 16874 27161	14 15 28	12 15	1 2 4	4 4	2 3		2 1	7.	1	=	-	1	- 1	111	3	1 1 1
Mile End Old Town West Mile End Old Town East Ww Bow WieL† Poplar W	35667 43529	40 38 55 30	19 40 57 28	5 6 8 3	13	5 1	ī -	2		1 1 9	1 1 1 1	11 11	- 1	- - 1	2	1 2 2 1	9
SOUTH DISTRICTS.  Christchurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	11 10 17 19 17 19 29 12	9 8 13 13 6 15 20 8	2 2 1 1 1 5 4	99999999	1 2 -	1 - 1	1 2 2 2 2		2	1111111	1111111	1	1 1 1	1	2 - 1 1	1 - 3 2
St. Olave Southwark H	7663 11893 16696 16505 25154 24502	2 8 15 9 45 19	7 7 14 14 22 14	1 3 6 2 6 3	1 - 8 6 3	1 4 2 3		ī.	111111	- 1 1 -	THEFT.	2	1 11 11 1	11111	3 1 - 1	3 1 - 1 2 -	4 4 6
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	9 14 9 44 31 14 26 14	5 2 5 36 20 11 6 10	1 1 4 4 1 1 1	2 - 3 13 6 5 1	1 1 2 4	111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	ī - - 1	111111111	1 -	1111111	1111111	1		14 - 2
Clapham Battersea W	20894 19600 18846 6481 10082	11 48 11 8 15	14 31 9 1 5	5 7 - -	3 3 3	1 2 - 1	- 2 - - -	3 1 -	11111	1.1111	11111	1111	1	ī -	-	- 1 1	3 -
Dulwich Camberwell WL+L+	1723 21297 28135 20333	1 31 51 19	6 20 10	1 2 1	1° 1 5 5 5	- - 1		3 -	1111		1111	1111	1	1111	- 1	1	- 2 1 -
St. Paul Deptford	37834 8139 21696 18306	50 7 15 8	22 6 5 17	7 - 1	6 2 3 11	1 -		11,11	- 1 - 1 - 1	2	1 1 1 1	1	1111		1 - 1	2 - 2	13
Eltham	3009 11003 7372 10595	2 6 8 8	1 3 3	2	1 2 1	1111	1111	-		1111	1111	-		1111	1 1 1		1111
Charlton H Woolwich Dockyard H Woolwich Arsenal H	9276 22919 18776 } 24502 {	4 10 23 7 9	5 11 12 8 7	5 3 5 -	3 3 - 3	11111	1/11/11	1 1 2 -	11111	1 -	11111	- - - 1	1	- - -	- - 2 1	- 4 - 2 1	11111

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.
The Strand - , Tottenham-court sub-district.
London City - , Halington East.
London City - , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.
London City , Mile End Old Town Eastern sub-dist, and
Stepney - , Bow sub-district.

Stepney - , Bow sub-district.

Stepney -

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE Z - METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, untug the vreek cruing paturasy, 2100 cantoner, 1012. [Under the Superintendence of the Astronomer Royal.]

													Me	teor	ologi	ical	Obs
				•	auo	zo		:	:	• .		:	:	:	:	26	
	RAIN.	Collected	in a Gauge	whose	surface is 5 in.	ground.	Inches	0.01	0.63	90.0	3	80.0	60.0	00.0	Sum 1.32	25	
			Robinson's.	Amount of	Movement	each day.	Miles.	426	599	453		108	201	164	Sum 2142	24	
ı		ters.		Pressure on square foot,	Mean	24 Obs.	lbs.	6.0	2.2	0.0	)	0.0	0.0	0.0	:	23	
		emome	ı	nbsuo		Least.	lbs.	0.1	0.1		<b>)</b>	0.0	0.0	0.0	:	22	
Į	WIND.	rom An		ressure	Great-	est.	lbs.	13.5	30.0	0.0	,	0.0	1.2	0.4	:	21	
l		As deduced from Anemometers.	Osler's.			P.M.				S.W. S.	· vi	NNW,SW,	ENE.	ESE. & SE.	W.	20	NOTES.
ı				General Direction.		A.M.		SSW.	SSW. & SW.	W SS W	•	Calm &	SSE. & E.	мi	SSW	19	
=	Degree	midity,	Satura-	tion	sented	by 100.		84	92	91	4	86	86	92	93	18	
				the day and mean tem-	the same day	of 50 years.*	0	+ 1:1	+ 3.3	1.0+		- 2.3	- 1.4	- 1.2	+ 0.3	17	
ı	DIFFERENCE				T anot			1.8	0.0	0.0	>	0.0	0.0	0.5	0.3	16	-
ı	DIFFE	Dew P	Temperature and	Air Temperature	Great-	est,	_			4.8	_	2.4	1.2	3.6	4.5	15	-
١		Between Dew Point	Temp	Air Ten	Mean G	_			2.1			2.0	0.5	2.1	2.0	14	
1			ater of nes at	ch, by	-		c	:	:	:	:	:	:	:	1:	13	
l			In the Water of the Thames at	Greenwich, by self-registering	T nermometers.	Highest. Lowest.	c	39.0	38.1	40.8	0.60	40.0	39.4	38.4	39.4	12	IERE.
l	FEBS.	Lowest	Grass, as	a self-	ing		c	33.0	32.0	31.8	0.67	26.1	0.12	33.0	30.4	=	MOSPI
l	READINGS OF THERMOMETERS.	Highest in	shown by			placed on the Grass.		73.9	99.99	59.8	8.61	40.1	43.0	41.9	57.9	10	SKY AND ATMOSPHERE
ı	OF TE	-		Mean	daily	value. pl		33.3	87.7	34.3	,	33.9	35.1	33.9	35.1	6	SKY
۱	ADINGS	-	۵۰		daily d	value.		7.5 3	9.8	6.7.8	₩. ₩.		35.6	86.0	37.1	. 00	-
١	RE			Range Mean	in	day. vs		5.9 3	8.68 9.11	3.8	10.4	8.0 34.6	3 . 8	2.9	7.2	1	-
۱			Dry.	-		est, da		34.7			20.00	30.7	34.0	34.8		9	-
ı						est. e		41.6 34	46.7 35	233	30	.7 30	37.8 34	.7 34	80	1 20	-
ŀ	- 2 %	10	, do						44 46	14 40	62 29	61 38	19 37	42 37	29.147 41.3 84.1	1	CITY
	METER.	Mean	reading	rected	duced to	Fahren heit).	i.	29.290	28.744	28.8	58.8	26.5	29-419	New 29.542 37.7	29.1	1 4	ELECTRICITY.
	MOON.			Phases	Moon.			:	:	28.814 40.7		Greatest	Dec. 3.	New		00	ELL
					DAT.		Y.	15	16	17	18	19	20	21	1	mns.	
			1871.		MONTH AND DAY.		JANUARY.	NAUNDAN	MONDAY .	TUESDAY .	WEDNESDAY	THURSDAY. 19 Greatest 29.261 38.7	FRIDAY	SATURDAY.	MEANS	No. of Columns.	DATE.

daily values by the application of corrections deduced by James Glaisher, F.R.S., from five years' observations ending 1845. December 31.—See Phil. Twans, part 1, 1845. The mean daily dew point and degree of humfilty are deduced from those mean daily values of the day and wet built thermometers by Glaisher's Hygrometrical Tables, Fourth edition. The results as the results deduced from the maximum and minimum thermomeders, as determined to the life self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory, Greenvich, in the 50 years ending 1865. December 31, \*In reading the 17th column therefore the mind that is read, "ingleer," and "Gonery," than the average. The results of all the meteorological observations are to be understood as for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 90, A.M.; noon; 80, P.M.; and 90, P.M., as well The height of the cistern of the barometer is considered to be 159 feet above the mean level of the sea. The readings of the barometer are considered to be coincident with those thermometer, and the wet thermometer, observed at these times, are converted into mean of the Royal Society's flint glass standard barometer. The observations are taken at 9h. A.M. The means of the readings of the barometer, the dry noon; Sh. P.M.; and 9h, P.M. Generally fine in the morning. Cloudy during the remainder of the day, and tain mixed with snow fell occasionally after noon. Strong wind. Rain fell

applying to the civil day, or from midnight to midnight. Showers of

The temperature of the water of the Thames is ascertained by the use of self-registering

In the early morning hours rain fell. Overcast till evening, then cloudless. Great gloom prevaled during the middle of the day.

Overcast throughout. Foggy. Rain fell occasionally.

20

FRIDAY

SATURDAY

Overcast, Thin rain fell at night

Cloudy till night, then variable. Rain, with snow, fell frequently. Generally cloudy. Heavy gale during the early morning. during the morning, accompanied with hall and snow.

The amount of cloud was generally large throughout.

The electrical apparatus

16

JANDARY.

SUNDAY

was not in action this week.

18

WEDNESDAT

TUESDAY MONDAY

THURSDAY.

during

thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of

The reading of the barometer decreased gradually from 29.68 in. at the beginning of the week to 29' in. by 2h. A.M. on the 16th, and rapidly from this time to 28' 70 in. by 7h. 20m. on the life same movening; remained below 28' 55 in. till after 9h. P.M. on the 17th; increased slowly to 29' 9 in. by 8h. P.M. on the 18th; and gradually to 29' 59 in. by 9h. A.M. on the 21st; and was 29' 48 in. at the end of the week. superintendence of the resident inspector on board the ship, by permission of Lieut.-Col. Henderson, R.E., C.B., Commissioner of Metropolitan Police. about 2 feet below the surface. The readings of these instruments are registered under the



 $\mathbf{OF}$ 

# IND DEATHS IN LONDON INETEEN OTHER LARGE TOWNS

NINETEEN OTHER LARGE TOWNS F THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 4. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JANUARY 28. [Price 1\frac{1}{2}d.

General Register Office, Somerset House, 30th January 1871.

During the week ending Saturday the 28th instant, 5214 births and 4071 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom; and the aggregate mortality of the week was in the ratio of

29 deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, stated in the order of their topographical arrangement, were as follow:—London 26 per 1000; Portsmouth 21, Norwich 20, Bristol 30, Wolverhampton 25, Birmingham 26, Leicester 32, Nottingham 30, Liverpool 46, Manchester 29, Salford 32, Bradford 27, Leeds 24, Sheffield 27, Hull 20, Sunderland 31, and Newcastle-upon-Tyne 20. The fatal cases of small-pox in these 17 towns were 214 last week, of which 157 occurred in London, 51 in Liverpool, 2 each in Manchester and Leeds, and one each in Salford and Newcastle-upon-Tyne.

In Edinburgh the annual rate of mortality from all causes last week was 31 per

1000 persons living, in Glasgow 40 per 1000, and in Dublin 33.

It is now 198 days since the Weekly Returns from Berlin, and 133 days since those from Paris, were discontinued on account of the war. In Vienna the annual rate of mortality during the week ending 14th instant was 30 per 1000. From official returns furnished by Dr. E. Janssens to the Registrar General, it appears that in Brussels 456 deaths were registered in the three weeks ending 21st instant, showing an annual death-rate of 34 per 1000 of the population; of these, 94 were fatal cases of small-pox, from which the death-rate in the three weeks was 6.9 per 1000, against 2.6 in London during the same period. In the City of Bombay the deaths registered during the week ending 3d instant were 323 (exclusive of still-born), and the mortality was at the annual rate of 21 per 1000. In the City of New York the deaths registered in the week ending 7th instant were 507, and the equivalent annual rate of mortality was 28 per 1000.

In London the births of 1183 boys and 1135 girls, in all 2318 children, were registered last week. The deaths registered were 1632. During the corresponding weeks of ten previous years the registered births averaged 2119, and the deaths 1626 per week; after making due allowance for increase of population, the average for the past week is estimated at 2331 births and 1789 deaths; the registered births, therefore, were 13 above, and the deaths 163 below, the estimated

average.

Zymotic diseases caused 396 deaths, including 157 from small-pox, 12 from measles, 66 from scarlet fever, 8 from diphther'a, 47 from whooping-cough, 10 from typhus,

15 from enteric (or typhoid) fever, and 5 from simple continued fever.

The 157 fatal cases of small-pox in London last week showed a decline of 31 upon the previous week. After distributing the 16 deaths in the Small-pox Hospitals at Islington and Hampstead among the districts from which the patients were admitted, it appears that of the deaths from small-pox in London last week, 55 may be assigned to the East group of Districts, 21 to the West, 36 to the South, 25 to the North, and 20 to the Central. The numbers in the East Districts were the same as in the previous week; those in the North and West showed a decline, but those in the South and Central Districts were more numerous. In Hoxton Old Town sub-district no less than 14 out of the 20 deaths registered last week were cases of small-pox.

[4.]

Considerable difficulty is experienced in obtaining reliable information as to the proportion of deaths from small-pox occurring among vaccinated and unvaccinated persons respectively. With reference to this point, one of the London Registrars reports to the Registrar General, that "If medical men would only add to their certificates of the cause of death in cases of small-pox "vaccinated," or "not vaccinated," as the case might be, the returns might be perfect."

No fatal accidents caused by horses or vehicles in the streets were returned

last week.

Dr. Frankland, in his report upon the quality of the Metropolitan water supply during the month of January, which is appended, calls attention to the following facts. The water delivered by the Chelsea Company was very turbid and unfit for domestic use on 20th and 24th; on the last of these occasions the sample was collected as it flowed into the cisterns of the Athenæum Club. The water of the Grand Junction Company was turbid on the same days, when drawn from the mains in Woodstock-street, and at the Royal College of Chemistry, Oxford-street. The Lambeth Company's water was turbid and contained living organisms on the 17th, whilst on 20th it was very muddy, and entirely unfit for domestic use. On the 16th the East London Company's water was slightly turbid, the suspended matter being full of living organisms and containing fine branched fun-The rest of the waters were clear and transparent on all occasions when they were examined. The quality of the water delivered by the West Middlesex Company, as regards organic elements, was much superior to that furnished by any other company drawing from the Thames. The best water delivered during the month was that supplied by the Kent and New River Companies; the worst was that sent out by the East London Company. The application of Clark's process of purification to the Grand Junction and Kent Companies' waters reduced the total solid impurity to less than one-half, and the hardness to less than one-fourth.\* Dr. Hill reports that the recent improvement in the quality of the Birmingham water-supply was not maintained; since December last the proportions of total solid impurity and of chlorine have more than doubled, whilst the large proportion of ammonia indicates very recent sewage contamination.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.82 in.; the highest reading was 30.08 in. on Friday, and the lowest was 29.40 in. on Sunday, 22d instant. The mean temperature of the air was 32° · 4, or 5° · 6 below the mean temperature of the corresponding week in 50 years (1814-63) as deter mined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 46°0 on Sunday; the lowest night temperature was 25°0 on Friday; the entire range of temperature in the week was, therefore, 21° °O. The highest temperature in the sun was 76° °5 on Sunday. The mean temperature was slightly above the average on Sunday, 22d instant, but was below the average on the last six days of the week; on each of the last four days the mean was below freezing point, and averaged 29°.8, or 8° 5 below the average. Eleven days only had elapsed since the breaking up of the last frost. The difference between the mean dew-point temperature and the mean air temperature of the week was 4°.2. The mean degree of humidity of the air was 84, complete saturation being represented by 100. The general direction of the wind was N.E. and N.N.E., and the horizontal movement of the air amounted to 13 miles per hour. Rain fell on the first five days of the week to the amount of

0.54 in.; nearly the whole, however, fell on Sunday and Monday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 29°.8 in Wolverhampton to 34°.2 in Portsmouth; the lowest recorded night temperature was 18°.9 in Salford, and the highest day temperature in the shade was 44°.2 in Portsmouth. Rain fell during the week in all the large towns furnishing returns, except in Liverpool, Wolverhampton, and Newcastle; the amount measured varied from .02 of an inch in Salford to .43 in Norwich.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 0°·22; the highest day temperature in the shade was 7°·78; the lowest night temperature was -3°·89; the highest temperature in the sun was 24°·72. The mean temperature of the week on an average of 50 years was 3°·33, or 3°·11 above the temperature of last week. The wind blew at the rate of 21 kilometres an hour, and the rain-fall was 1·37 centimetres.

<sup>\*</sup> For a description of Clark's process see No. 43 of the Registrar-General's Weekly Returns for 1870.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 339,155 cubic metres, and at Barking 275,019 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

The REGISTRAR GENERAL has to acknowledge the courtesy of the LONDON WATER COMPANIES, who have furnished him with the average daily quantity of Water supplied for the month of DECEMBER 1870: thus, according to their account, 97,371,249 gallons or 442,402 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 91.6 decalitres, rather less than a ton by weight, to each house, and 12.9 decalitres (=28.4 gallons) to each person.

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of December 1870, it may be estimated that about 80,023,890 gallons were probably used for domestic purposes, or about 23 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Registrar General has no means of giving a more exact estimate.

Companies.		Houses, &c.	in Gallons (in Manufactures purposes other	upply of Water cluding that for and for various er than for do- mption) during
	NOVEMBER 1870.	DECEMBER 1870.	November 1870.	DECEMBER . 1870.
TOTAL SUPPLY	482,850	482,982	101,063,124	97,371,249
From Thames	222,924	223,045	52,650,070	50,837,088
	259,926	259,937	48,413,054	46,534,161
THAMES. Chelsea West Middlesex Southwark and Vauxhall Grand Junction Lambeth	27,640	27,670	7,617,900	7,268,600
	41,458	41,458	8,307,244	7,858,216
	77,272	77,277	16,501,270	16,427,380
	30,929	30,929	10,722,085	9,994,995
	45,625	45,711	9,501,571	9,287,897
LEA AND OTHER SOURCES.  New River East London Kent	118,330	118,341	22,418,000	21,027,000
	101,817	101,817	19,174,000	18,993,000
	39,779	39,779	6,821,054	6,514,161

Note.—The Return for December as compared with that for November shows an increase of 132 houses, and a decrease of 3,691,875 gallons of water supplied daily.

### ANALYSIS OF METROPOLITAN WATERS FOR JANUARY.

Sir, Royal College of Chemistry, 27th January, 1871.

I have the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the metropolis during the month of January, and I also append the results yielded by the Grand Junction and Kent Companies' waters after the application to them of Clark's process of purification, together with the results of the analysis of the Birmingham water supply

furnished by Dr. Hill.

On the 17th instant the water delivered by the Chelsea Company was clear, but on the 20th and 24th instant it was very turbid and unfit for domestic use. On the last of these occasions the sample was collected as it flowed into the cisterns of the Athenæum Club. The Grand Junction Company's water was clear on the 16th instant when drawn at Lancaster Gate, and turbid on the 20th and 24th instant when drawn from the mains in Woodstock Street and at the Royal College of Chemistry, Oxford-street. The Lambeth Company's water was turbid and contained living organisms on the 17th instant, whilst on the 20th instant it was very muddy and entirely unfit for domestic use. On the 16th instant the East London Company's water was slightly turbid, the suspended matter being full of living organisms, and containing fine branched fungoid growths. The rest of the waters were clear and transparent on all occasions when they were examined. As regards organic elements, the quality of the water delivered by the West Middlesex Company was much superior to that furnished by any other company drawing from the

Thames. The best water delivered during the month was that supplied by the Kent and New River companies, and the worst was that sent out by the East London Company. I have applied Clark's process of purification to the Grand Junction and Kent Companies' waters, and the accompanying analytical table shows that in both cases the operation reduced the total solid impurity to less than one half, and the hardness to less than one fourth. The proportion of organic elements in the Grand Junction water was also considerably diminished; but that in the Kent Company's water, being originally very minute, was left practically unchanged.

Dr. Hill reports that the recent improvement in the quality of the water supplied to Birmingham has not been maintained. On the 5th instant it was slightly turbid, and since December last the proportions of total solid impurity and of chlorine have been more than doubled, and the hardness nearly so; whilst the

large proportion of ammonia indicates very recent sewage contamination.

The Registrar General, &c., &c.

I have, &c. E. Frankland.

RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

	TESULIS OF ANALISIS		LEGGEL	774 7	111111	1 1116	100,0				
Companies.	Date and Place of Collection.	Temperature in centigrade degrees.	Total Solid Impurity.	Organic Carbon.	Organic Nitro-gen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sewage or Animal Contamination. (Estimated.)	Chlorine.	Total Hard-
THAMES. Chelsea	{ 17th January, Cab Rank, Horse Guards }	5.0	28.76	179	*023	•000	*331	*354	2990	1.95	20.00
West Middlesex -	{ 17th January, Cab Rank, Portland-road}	4.7	29*42	•150	*015	.000	*311	*326	2790	1.75	21.78
Southwark and Vauxhall	{ Cab Rank, St. George's Church, Borough	2.8	33.72	•193	•027	.001	*385	•413	3540	1.98	23.90
Grand Junction -	16th January, Lancaster Gate, Hyde Park.	3.3	30.24	•177	•042	*003	•324	*368	2940	1.85	21.78
Ditto, softened by Clark's process -	$\left\{ \begin{array}{c} 16\text{th January,} \\ 14, \text{Lancaster Gate, Hyde} \\ \text{Park.} \end{array} \right\}$	4.4	13'84	*153	•019	•004	*329	*351	3000	1.86	5*48
Lambeth	{ Cab Rank, Lambeth-road }	4.2	27.48	•203	•033	*002	*340	*375	3100	2.02	19.14
OTHER SOURCES.		-		1		-			1		1 8
New River	{ Cab Rank, Tottenham- court-road }	4.4	31.04	.066	011	000	309	*320	2770	1.56	24.5
East London	16th January, Slater's LampBlackWorks, Old Ford-road	6.7	37.40	•232	*036	.015	•422	.470	4020	2.20	26.6
Ként	{ 16th January, Deptfd. Bdge. Police Stat. }	9.4	40.42	*045	*014	*000	*370	*384	3330	2.38	29.08
Ditto, softened by Clark's process -			19.00	*044	*016	.001	*375	*392	3440	2.33	7.00
Birmingham *	{ 5th January, Birmingham Water Supply }		51.80	*267	.038	*019	*262	*316	2462	3.40	30.00
Column 1	2	3	4	5	6	7	8	9	10	11	12

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingham,

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 17th January at the Horse Guard's cab-rank had a temperature of 5° °CC.; 100,000 lbs. of it contained 28 76 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained 179 lb. of carbon and 0.23 lb. of nitrogen. The above quantity of water contained no ammonia, and 331 lb. of nitrogen in the form of nitrates and nitrites, whilst the total amount of combined nitrogen in every form was 354 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contained with animal matter equivalent to that contained in 2990 lbs. of average filtered London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 1.95 lbs. of chlorine. Finally, 100,000 lbs. of the water contained 20 00 lbs. of carbonate of line, or an equivalent quantity of other hardening or soap-destroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation

transforms the hardness in the Table into degrees of hardness on Clark's scale.

Table 1. LONDON.—Births and Deaths Registered Last Week, and in the Fourth Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Average of 10 Weeks.	1871
Total Births  Males Females .	1978 1034 944	900 901	2086 1079 1007	2107 1044 1063	1894 964 930	2149 1090 1059	2237 1160 1077	2323 1157 1166	2260 1153 1107	2359 1200 1159	2119·4 1078·1 1041·3	2318 1183 1135
Total Deaths Males Females	1783 909 874	1569 768 801	1426 692 734	1749 873 876	1747 913 834	1363 674 689	1880 956 924	1395 717 678	1737 874 863	1613 808 805	1626·2 818·4 807·8	1632* 824 808

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS,

		_						-	-	THEOLOGICAL		-	-
	Nov.	Nov. 12.	Nov. 19.	Nov. 26.	Dec.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Jan. 7.	Jan. 14.	Jan. 21.	Jan. 28.
Total Deaths	1343	1468	1639	1652	1482	1586	1737	1377	1760	1828	1896	1846	1632*
Deaths under 5 years of age - Deaths 5—20	568 141	644	674 150	712 131	629 126	647 159	688 154	540 143	672 150	651 142	660 13 <b>5</b>	650 156	601 142
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	203 198 190 43	195 236 220 37	219 276 265 55	212 244 293 60	198 222 255 52	219 239 280 42	253 278 301 63	205 215 218 56	250 294 322 72	242 330 391 72	241 355 412 93	271 294 377 98	224 282 318 65
Deaths from Smallpox	23 27 174 7 10 10 20	40 19 150 4 20 13 19	45 36 162 10 28 12 22	41 24 122 5 26 6 28	60 33 130 11 25 12 21	61 27 116 7 32 12 26 16	44 27 135 9 44 9 23	82 25 104 6 33 16 30	110 29 110 8 49 10 21	79 34 112 4 36 10 18	135 27 77 9 38 10 17	188 17 68 6 51 5	153 .12 .65 .8 .47 .10
,, Simple Cont <sup>d</sup> fever ,, Diarrhœa - ,, Simple Cholera -	16 2	13	18	18	12	13	12	9	6 -	19	17	17	5 10 —
, , , Phthisis Bronchitis Pneumonia - Heart Disease -	148 120 81 61	154 196 95 75	176 216 107 81	165 257 116 75	144 222 89 79	167 244 101 71	173 249 114 74	144 174 75 57	185 265 105 88	186 319 93 102	178 377 91 109	155 309 89 93	162 250 84 71
Mean Temperature of the Air	44.1	39.1	37.6	46.8	38.9	32.5	42.8	33.0	25.7	31.1	33.0	37.1	32·4
Mean Temperature of the Water of the Thames -}	-	-	_	_		-		-		-	_	-	-
Humidity of the Air	90	90	90	87	87	89	92	78	85	- 84	87	93	84
Rain-fall in inches	0.47	0.04	0.18	0.95	0.01	0.84	1.70	0.17	0.42	0.07	0.08	1.32	0.54

<sup>\*</sup> The return for the sub-district of Haggerstone East (Shoreditch) was not received when the tables were under preparation, but an average of 11, derived from the returns of six previous weeks, is substituted for the true number, which is 15.

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S. :—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Elmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Did Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 28th day of January 1871, in the following large Towns.

The second secon	CITIES  AND  BOROUGHS.	Area in Acres.	Estimated Population in the middle of the Year 1871.**	Persons to an Acre. (1871.)	BIRTHS registered during the Week ending 28th Jan. 1871.	DEATHS registered during the Week ending 28th Jan. 1871.		Lowest during the Week.		TEMPERATURE OF THE AIR. (CENTIGRADE.)  Weekly Mean of the Daily Mean Values.	RAIN In Inches.	In Centi- metres.
	rotal of 20 Towns in the United Kingdom -	213,281	7,336,941	34.4	5214	4071	46.0	18.9	31·6	-0·22	0.12	0.30
ij,	LONDON	77,997	3,258,469	41°8	2318	1632	46.0	25.0	32.4	0.22	0.24	1.37
	PORTSMOUTH	9,513	125,464	13.2	78	51	44.2	22.8	34.2	1.22	0.08	0.50
28	Norwich	7,472	81,787	10.9	51	32	40.5	22.0	32.0	0.00	0.43	1.09
1933	BRISTOL	4,688	173,364	37.0	117	98		_		`		manus 5
1/8	WOLVERHAMPTON -	3,387	74,438	22.0	48	36	36.2	19.2	29.8	-1.22	0.00	0.00
2	BIRMINGHAM	7,831	378,574	48.3	227	186	37.4	22.7	31'4	-0.34	0.16	0.41
1211	LEICESTER	3,200	101,367	31.7	91	63	36.7	23.7	31.2	-0*45	0.04	0.10
	NOTTINGHAM	1,996	90,480	45.3	58	52	36*6	22.0	31:2	-0.45	0.08	0.50
18 1	LIVERPOOL	5,108	526,225	103.0	397	464	38.0	22.8	30.7	-0.72	0.00	0.00
180	MANCHESTER	4,486	379,140	84.5	289	208	-	-	-	rents	, —	
	SALFORD	5,172	123,851	23.9	121	75	38.2	18.9	30.7	-0.72	0.02	0.02
	BRADFORD	6,590	148,030	22.5	109	76	38*5	21.4	31.2	-0.45	0.06	0.12
1	LEEDS	21,572	266,108	12.3	245	122	87.0	24.0	33.4	0.78	0.17	0.43
	SHEFFIELD	22,830	255,247	11.5	193	134	36°5	24.2	31°7	-0.17	0.10	0.25
1	HULL	3,562	135,195	38.0	. 81	52	-	-	_			
1	SUNDERLAND	3,306	103,037	31.2	71	62	_					-
	NEWCASTLE-ON-TYNE	5,336	136,293	25.5	62	53	38.0	21.0	31.2	-0.45	0.00	0.00
1.00	EDINBURGH	4,427	179,944	40.6	140	107	85.7	25.0	30.8	-0.67	0.00	0.00
0.63	GLASGOW	5,063	477,627	94.3	362	362	36.3	21.8	28.8	-1.78	0.13	0.33
Dira-	DUBLIN	9,745	322,321	33°1	156	206	41.2	25.8	34'3	1.28	-	
1	Paris Vienna Berlin	19,279 9,212 15,451	1,889,842 622,087 800,000	98 68 - 52		359 <del>†</del>	120000 100000	_	19.41	7:00+	_	, <del>-</del>

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.

† The facts for Vienna relate to the week ending 14th January 1871.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Week ending Saturday the 28th day of January 1871.

	ANNUAL				The	DEAT	Hs regi	istered :	in the V	Week in	clude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fuver.	Diphtheria.	Whooping- cough.	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Institutions.
Total of 17 Towns -	28	3396	752	779	214	45	146	18	88	117	27	92	197	537
LONDON*	26	1632	345	385	157	12	66	8	47	30	10	45	87	301
PORTSMOUTH	21	51	12	16		-	1	-	2	2	-	3	5	9
Norwich	20	32	5	13	-	-	5	-	1	-	-	-	2	3
BRISTOL	30	98	23	33		1	6	1	-	2	-	2	3	18
WOLVERHAMPTON .	25	36	9	9	_	_	_	1	_	_	1	-	_	6
BIRMINGHAM	26	186	34 .	43	-	5	6	2	7	5	3	7	22	23
LEICESTER	32	63	18	14	-	1	5	1	_	1	1	1	3	4
NOTTINGHAM	30	52	9	16	-	1	2	-	1	1	-	1	- 2	9
LIVERPOOL	46	464	112	100	51	14	26	2	16	41	6	10	26	89
MANCHESTER	29	208	42	46	2	2	4	1	_	10	3	4	13	34
SALFORD	32	75	21	13	1	4	2	-	1	-	-	2	5	1
Bradford	27	76	21	12	-	-	6	1	1	8	-	2	3	2
LEEDS	24	122	27	19	2	8	4	1	2	5	_	2	6	7
SHEFFIELD	27	134	36	27		2	3	_	4	4	3	6	10	15
HULL	20	52	12	10	-	_	2	-	- 1	1	-	3	3	3
SUNDERLAND	31	62	15 .	13	-	-	5	-	3	2	-	1	4	-7
NEWCASTLE-ON-TYNE -	20	53	11	10	1	-	3	-	3	5		3	8	6
DUBLIN	33	206	28	65	-	1	8	1	10	16	2	2	3	56

<sup>\*</sup> The details for London given in this table will not agree with those on pages 31 and 32, as the deaths under one, and over 60, and the fatal cases of small-pox, searlet fever, and fever, occurring in Haggerstone East sub-district, the return from which was received too late for insertion in Tables 5 and 6, have been added here.

TABLE 5 .- DEATHS in LONDON Registered in the FOURTH Week of the Year 1871.

TABLE 5.—	-DEAT	15 111	Liu	NDC	ו אנ	neg	in the Fourth week of	t the 1	ear	18/1	•						
	1-70.	Sati	In th	ne W	eek o	endir y 28,	ng 1871	.		1-70.	Sat	In thurday	e W	eek nuar	endin	1871	
	verages of the Fourth Week 10 years 1861-70.		Deat	hs of	Per	ons				regrages of the Fourth Week e 10 years 1861-70.		Deatl	hs of	Pers	sons (		
CAUSES OF DEATH.	Averages Fourth				Age	1	80.	_	CAUSES OF DEATH.	Averages Fourth		1	1	Age	60,	98 7	
÷ 6	Aver For the 10	ALL AGES.	Un 20		under 40	under 60	10	and 8.	÷ .	Aver For the 10	ALL AGES.	Und 20		under 40	under 6	er.	and 8.
	in	Mean Tem.		0.	and un	an pa	an pu	Upwards.		- ii	Mean Tem.		0.0	and un	and un	and un	y gears upwards.
Mean Temperature -	38.5	32.4	0-5.	5-20	20 aı	40 and	60 and	08 nh	Mean Temperature -	38.2	32.4	0-5.	5-20,	20 aı	40 aı	60 ar	OR Th
ALL CAUSES	1626.2	1632†	596	140	222	280	318	65	9. Stricture of Intestines -	1.1	4	-		1	1	2	Ŀ
SPECIFIED CAUSES	1611.0	1612	590	140	222	278	317	65	10. Fistula	6.1	8 -	1	-,	3	1	1	2
I. ZYMOTIC DISEASES. ORDER 1.									13. Hepatitis	3·1 15·7	10	-	-	1	1 6	1 8	1
1. Small-pox	14.6 31.5	153 12	69 12	40	31	11	2 -	-	16. Spleen Disease, &c ORDER 5.	.6	-		_		_	-	-
3. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy	53°3 9°4 1°0	65 8 1	42	21 8	2 -	1		-	1. Nephritis	1'4	2	1	-		1	-	H
7. Whooping-cough -	16·2 75·3	15 47	12 43	3		-			3. Bright's Disease (Nephria) 4. Diabetes	12.1	8	-	1 -	1	5 -	1	
8. Typhus	58.1	10 14 5	1 2	7	1 2 1 2 8	1	3 2 1	1	5. Calculus (Stone) 6. Cystitis	1.0 .8 7.7	1 1 9	- 1	1	4	- 1	1 2	
9. Erysipelas 10. Puerperal Fever (Metria)	8·3 4·4 1·4	10	4	ī		1 2 -	2	H	7. Kidney Disease, &c ORDER 6.								
11. Carbuncle	2.6	-	=	-	-	-	1 1		1. Ovarian Dropsy 2. Uterus Disease, &c	3.3	5			-	2	3	Ē
14. Diarrhea	13:0	10	7	1 -	-	- 1	2	-	ORDER 7. 1. Synovitis (Arthritis) -	.3	-	-	- 2	J 0	-	- 2	Ŀ
16. Ague	*7 *8 8*7	1 1 9	-	1 3	- 2	1	1	2	2. Joint Disease, &c ORDER 8.	5.2	7			3:	-	2	
19. Other Zymotic Diseases -	*4	4	4	-	_	-	_		1. Phlegmon	2°4 2°2 °5	1		1	- 1	-	-	
1. Syphilis 2. Stricture of Urethra -	8·4 ·6 ·2	1 1	5 -	-	-	1	-		3. Skin Disease, &c IV. DEVELOPMENTAL		-				-		
3. Hydrophobia		=	-	=	-	_			DISEASES. ORDER 1.								
1. Privation 2. Want of Breast-milk -	*6 8·2	2 9	9	-	-	1	1	~	1. Premature Birth	21·4 1·7 -8	24 3	24 3	-	-	-:	-	Ė
3. Purpura and Scurvy 4. Alco- a Del. Tremens holism b Intemperance	8·2 1·7 1·6	1	1	-	-	1	-		3. Spina Bifida 4. Other Malformations -	2.0 18.9	1 2 20	3 1 2 20	-	-	-	-	E
ORDER 4.	1.8	2	2	-	-		-		5. Teething ORDER 2.		20	20					
2. Worms, &c		-	-	=	=	Ξ	=	-	1. Paramenia 2. Childbirth (see Puerperal)	6.0	3	-	-	3	-		E
II. CONSTITUTIONAL DIS. ORDER 1.								Ш	ORDER 3.								ī
1. Gout	1.8 14.3 26.1	11 24	=	- - 1	1 2	1 3 17	3 7 4		1. Old Age ORDER 4.	73.9	65	-		-;	-	37	28
4. Cancrum Oris (Noma) - 5. Mortification	5.4	7	-	-	-	1	3	- 3	1. Atrophy and Debility -	60.7	48	36	3	1	3	5	E
ORDER 2.	8.6	7	3	2	-	1	1	-	V. VIOLENT DEATHS, &c. ORDER 1.								
2. Tabes Mesenterica 3. l'hthisis 4. Hydrocephalus	14.6 175.5 30.0	20 162 34	20 8 30	12	85	47	10	-	(ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	16.2	15	-	2	8	7	8	
III. LOCAL DISEASES.			-	-			-		2. Wounds	10.7	7	3	1	1	1 -	2	E
ORDER 1.	13.8	22	14	3 2	2	2	1	-	4. Poison	3·2 8·7	3	10	-	1.	2	1	
2. Apoplexy	37.6 36.9 1.2	55 44 2	6	2 -	3	18	26 27 1	3 1	7. Otherwise	2.7	2	2	-	-	-	-	
5. Chorea	7.6	- 5	1	1	- 2	1	-	-	ORDER 3. (Homicide.)								
7. Convulsions 8. Brain Disease, &c	55°6 20°8	56 11	54 1	Î -	5	1	1 4	-	1. Murder and Manslaughter ORDER 4.	1.4	2	2	-		-		
ORDER 2. 1. Pericarditis	-1°8 2°6	2	1	1 -	1	-	-	-	(SUICIDE.)	•8	1		-	1			
3. Heart Disease, &c ORDER 3.	75°9	71	ī	3	8	27	28	4	1. Wounds {Gunshot - Cut, Stab	1.0	-	=	-	=	-	=	E
1. Laryngitis	8°9 272°8 3°7	250	8 68	1	16	57	94	14	3. Drowning	9 8	2	=	-	ī	ī	-	
4. Pneumonia	97*6	84 19	41	8	6 3	19 8	10 6	- 2	5. Otherwise ORDER 5.		-	-		-			
6. Lung Disease, &c	25°3 17°2	22	7	ī	1	5	6 7	1	(EXECUTION.) 1. Hanging	-	-	-	-	-	-	-	E
1. Gastritis	1.8 4.9 5.2	1 2 5	1	1	1 - 3	1	-	-	Violent Deaths (not classed)	*6	1	-	-	-	1	-	
4. Ascites	2.5		1	-	-	1	-	-	Sudden Deaths (Cause un-	3.0	-	-	-	-	-	-	Ī
6. Hernia	4.5 3.0 1.0	2 6 2 1	l i	1 -	-	3	1 -	-	ascertained) - Causes not specified or ill-	12.2	20†	6	-	-	2	1	
· · · · · · · · · · · · · · · · · · ·			1	1	1		1	1			1		-				

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

<sup>†</sup> An average of 11 is added without distinction of ages. See note \*, page 29, where the ages have been proportionally distributed.

See note \*, page 29. This return contained the deaths of 2 children under 1 year of age, 2 of persons aged 60 years and upwards, 4 fatal cases of small-pox, 1 death from searlet fever, and 1 from enteric (or typhoid) fever.

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

										-				uui	mg	ше	w eel	r em	ung
				during	during				The	DEAT	HS re	gistere	d in	the W	eek i	nclude	3		
	REGISTRARS' SUB-DISTRICTS.		POPU- LATION, 1861.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhæa.	Violence.	Inquest Cases.	In Public Insti- tutions.†
	LONDON -	• •	2,803,989	2318	1632	343	383	153	12	65	8	47	10	14	5	10	45	87	801
	WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS SOUTH DISTRICTS		458,125 618,210 383,321 571,158 773,175	314 536 211 532 725	273 408 179 335 437	58 79 29 68 109	70 123 35 55 100	19 35 16 48 35	4 2 2 2 2	5 21 9 9 21	- 3 1 1 3	7 11 4 15 10	1 4 - 5 -	- 4 2 4 4	1 - 2 1	1 4 1 2 2	9 9 7 9 11	13 30 11 21 12	57 98 27 49 70
	WEST DISTRICTS.  St. Mary Paddington WH — St. John Paddington H — Kensington Town W — Brompton H — St. Peter Hammersmith — St. Paul Hammersmith H — Fulham W — Chelsea South H — Chelsea North-west. HWw Chelsea North-west. HWw — Hanover Square — May Fair W — Belgrave H — St. Margaret Westminster St. John Westminster St. John Westminster Golden Square — Golden Square — Golden Square — Gerwick-Street —		39015 36769 51910 18198 5415 19104 15539 21654 19899 21886 19773 12885 55113 37483 30730 10753 13966 10607	39 13 61 15 2 21 16 13 18 14 4 4 29 22 10 3 8 6	26 9 33 9 2 9 5 21 25 11 7 2 31 20 32 31 31 31 31 31 32 31 32 31 31 31 31 31 31 31 31 31 31 31 31 31	7 112 3 -3 4 1 -1 8 3 5 -1 2	7 2 7 1 1 2 6 13 1 6 1 6 2 5 3 3	- 1 - - - 1 - 4 13	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 2 2 2				1	3	2 2 1 - 2 3 - 3	3 2 - 2 - 4 16 - 1 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
The state of the s	St. Anne Soho H NORTH DISTRICTS.  All Souls Marylebone H - Cavendish Square Rectory Marylebone H - Christchurch Marylebone - St. John Marylebone - Hampstead WH Regent's Park Pancras - Tottenham-court wH		29952 15090 26692 22493 34913 32540 19106 34927 29371 27808	12 5 25 22 21 20 14 28 22 15	11 5 29 10 6 17 20 12 10 13	3 2 5 2 1 4 2 2 2 2	4 1 9 5 1 2 4 3 4	1 - 3 9 - 1	111111111	2 - 1 -	1		1	1 - 1	H STILL H	The trainer	1	2 5 - 1 2	3 4 17 - - - 3 10 - - 2
	Gray's Inn Lane H - Somers Town Camden Town W - Kentish Town W - Islington West* WHH Islington East Ww - Stoke Newington L - Stamford Hill - West Hackney Hackney WHw - CENTRAL DISTRICTS.		23999 23266 44317 75442 79899 6608 5483 24265 31481 15458	31 17 40 88 77 11 6 24 30 28	16 16 38 69 65 4 3 14 35 15	6 2 6 10 13 1 2 4 5	8 14 13 25 1 - 2 18	10 5 - 2 1 3	1 1 1	56 - 25 -	1	3 4 1	2 - 1	1	1	2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 1 2 - 1 1 -	153 43 - 121 -	10 10 20 8 -
	St. George Bloomsbury - St. Giles South WH - St. Giles North - Long Acre Charing Cross WH - St. Clement Danes H - St. Clement Danes H - St. Andrew East Holborn Saffron Hill - St. James Clerkenwell W - Anwell Clerkenwell - Goswell-Street - Old-street - City-road HL - W hiteross-street - Finsbury		17392 19483 17201 11618 11071 10346 15207 19903 12947 12012 19152 17250 13079 16200 11504 17860 14778 12931	7 14 2 13 3 7 6 12 6 5 14 8 6 10 13 25 14 3	10 14 5 9 6 7 14 10 7 4 11 5 7 9 3 10 4 4	2 3 1 3 1 2 - 1 - 1 2 2 2 2 2 2 1	4 3 1 1 2 2 2 1 1 - -	1 - 2 - 1 1 - 3 - 2	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1	2	1 1	3 6 1 2 - 2 2 2 2 2
	St. Botolph East London		20990 19697 11750 15395 7762 9020 8570 8659 11544	13 8 3 7 2 4 1 1 1 4	9 5 6 3 1 4 5 1 6	2 - 1 1 1 1 1	3 2 2 2 - 1 2 - 2	1		11111111	1111111	1		1 1			3 1	1 3 1	6

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H-Hospital;

L-Lunatic Asylum;

w-A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

Saturday, 28th January 1871.  The DEATHS registered in the Week include																	
		during	during				The I	EATH	s reg	istere	l in t	he W	eek in	clude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti- tutions.
FAST DISTRICTS.   Holywell Shoreditch	17313 19188 26516 25777 23260 17310	5 9 34 21 17 16	2 10 21 23 22 11‡	7 7 2	25 3	3 8 14 5	1117111	1 - 1		1	11111	1	111111	11111	- 1	1 2 -	- 6 - 4 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	26 33 22 23	17 18 16 16	2 3 1 4	1 7 2 -	5 1 4 3	1.1.1.1	- - - - -	1 -	1 - 1	1 -	1 2	1	ī -	1111	1111	4
Artillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	9 18 11 7 10 1	3 8 10 7 14 1 3	1 1 - 1	1 2 3 - 4 -	1 2 - 1	1111111	1 -	1111111	1	3		1111111	1111111	1 1 1	1 2 3 1	ī 11
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	16 20 11	7 10 8	2 4 1	1 5	1 -	-	-	= 1	1 -	ī		111	1 1 1	ī -	1 -	- 6
Shadwell W	12537 16874 27161	7 13 23	5 5 11	8 1 2	3	ĩ		=		1 4	-		14		1.	2	1
Mile End Old Town West Mile End Old Town East Ww Bow WwLt	35667 35667	34 43 56 43	11 20 30 26	3 6 10 5	5 2	1 - 2	1	- - 8 1		1 8		11 11	1	1 -	1 2	1 3	7
South Districts.  Christehurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	15 14 7 15 12 27 42 8	9 3 8 11 8 15 31 9	1 2 4 4 1 3 3 2	6 - 3 2 3 15 2	11131		1 2 -		1 1 1 1 1 1	11111111	11111111		1111111	1 - 1	1 - 1	1 - 2 - 12 3
St. Olave Southwark H St. John Horsleydown $W$ Leather Market St. Mary Magdalen $W$ St. James Bermondsey Rotherhithe $W$	7663 11393 16696 16505 25154 24502	3 11 11 22 42 31	10 7 8 9 20 14	2 3 1 8 6	1 6 2 2	1 3 - 1 -	11111		11111	1 - 1	111111	- - 1	111111	111111	- 2 2	3 2	10 2 5
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	9 22 10 33 30 16 20 5	9 7 20 14 12 14 3	3 1 - 5 8 5 1 1	1 3 - 2 2 5 1 -	2 	11111111	1 3		1	1111111	1	1111111	1	1111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19141171
Clapham  Battersea W	20894 19600 13346 6481 10082	25 52 13 5 2	11 26 11 1 2	5 7 4 -	2 5 3 1	1 1	2 -	1		1	11111	1111	11111	11111	11111	11111	65.77
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1723 21297 28135 20333	4 18 29 21	3 19 16 13	- 3 8 5	1 5 3 3	- 1 2		1 2	1111	- 1	1111	1	1111	ī - -	1	1	4 4.8 1-
St. Paul Deptford	37834 8139 21696 18306	40 9 10 10	11 8 8 15	3 2 2 3	1 3 4 4	1	1111	1 -	1	1111		1111		11/11	-	1.11.1	+ + + 1 8
Eltham Lee Lewisham Village W Sydenham	3009 11003 7372 10595	3 10 12 16	1 8 4 2	2 -	2 2 -	1-1-1-1	1111	1 -	1111		1111	1		111	- - 1		1.141.1
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The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - - " " Holborn Workhouse is in Hoxton New Town sub-district.

London City - - " " Halington East.

Do. do. - " " Hackney sub-district.

Stepney - " Bow sub-district.

Stepney - " Bow sub-district.

Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted. † See note \* page 29. This return contained the deaths of 2 children under 1 year of age, 2 persons aged 60 years and upwards, 4 fatal cases of small-pox, 1 death from scarlet fever, and 1 from enteric (or typhoid) fever.

# TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 28th January, 1871.

[Under the Superintendence of the Astronomer Royal.]

				ouozo		:	:	: :	:	- 1 -		:	56			hose at dry	five	and	well by	rage rva-	r 31.	ing	cont	to to	ek.
RATM.		Collected in a Gauge		above the ground.	Inches	0.22	0.19	0.00	00.0	00.0		Sum 0.54	31			ive the natural transfer taker eter, the	R.S., from fiv	The ary	P.M., as	The average ical observa-	December done	llucistor	lepth of about der the super- of LieutCol	the weel	on the si
1:		Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	228	310	479	806	215		Sum 2225	22			feet abortions substitute baroms	sher, F.R. 1848.	values or edition.	column 7	to each.	ling 1863, igher," ar	nag or al	at the desert and under a consission o	nning of the 24th;	r 9h, P.M.
1		eters.	refoot	Mean of 24 Obs.	l) s	0.5	000	9.0	0.0	0.0	1	:	28			be 159 I to be observed gs of t	es Glai	ı danış ourth	ed in h. P.M	pplied the th	urs end	hy the	e Ship regist	e begi	ill afte in. at
		Inemom	enbs uo	Least,	lbs.	0.0	0.0	0.0		0.0	1	:	22			ed to sidered The readin	y Jam	les, F	oon; 3	eing a	50 yes + is re	servan	Polic tts are	at th	ding t
WIND		d from 1	Pressure on square foot	Great.	lbs.	1.9	1.1	0010	7 0:	0.4		:	21			nsider are con meter. of the	need b	those	Ders (	tions k	in the	ght.	rpion "	9.48 in a	his rea
		As deduced from Anemometers Osler's.	Direction.	P. M.		ESE. & ENE.	ZZ ZE	N.E.	N by E	N. S.	IN. Dy E.	NNE.	50	NOTES.		The height of the cistern of the barometer is considered to be 130 feet above the mean level of the sea. The readings of the barometer are considered to be coincident with those of the Royal Society's fluit glass standard barometer. The observations are taken at A. M., noon; Sh. P.M., and 9h. P.M., flu nears of the readings of the barometer, the dry thermometer, and fine wet thermometer, observed at these times, are converted into mean	daily values by the application of corrections deduced by James Glaisher, F.R.S., from five years' observations ending 1845, December 31.—Seco Phil. Trans., part 1, 1848. The mean daily	dew point and degree of humidity are deduced from those mean daily values of the dry and wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. The results	for mean daily temperature of the air, or the numbers exhibited in column 1, include the observations of the day thermometer, read at 9h. A.w.; noon; 3h. P.w.; and 9h. P.w., as well see the macrile delived from the maximum and minimum thermometers as determined by	and relatively the structure of the stru	tions taken at the Royal Observatory, Greenwich, in the 50 years ending 1863, December 31, and reduced the formula will be been in mind that is read "higher," and "house," for the control of the contro	und the average. The resums of an one meteorougher applying to the civil day, or from midnight on midnight. The termometries of the weter of the Oppmes is seen	The complexities of the water of the "Storphin" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the super-information of the reading the super-information of the reading the super-information of the reading of the reading the super-information of Lieut. Col.	C.D., Communisations of neuropoins at rotace to the beginning of the week to the larometer decreased from 22 '83 in. at the beginning of the week to on the 22d; increased to 29 '93 in. by 9h. P.M. on the 24th; decreased to	29.82in. by 3h. P.M. on the 25th; was stationary at this reading till after 9h. P.M. on the same day; increased to 30.08 in. by 9h. P.M. on the 27th; and was 29.98 in. at the end of the week.
			General 1	A. M.		SSE. & S.	ZZ Z	ENE.	N N N	NNE.		NE. &	19			of the barc ngs of the t glass sta 1 9h. P.M.	on of correction of the terms o	aldity are d Glaisher's J	of the air, mometer, ithe maxim	eters, the part determin	servatory, (n it will be	rom midnig	m the side to readings inspector	neter decre d; increase	th; was stared to the or
6	of Hu-			ASSESSMENT NAMED IN		91	98	64	100	84		84	18			cistern ne readi by's flin .M.; an	applicati nding 18	e of hur ters by	dry ther	hermom ir is th	Loyal Ok	day, or i	nded fro ace. Th resident	e baron	on the 25 08 in. by
N. C.		Between mean tem- perature of	the day and mean tem- perature of	the same day on an average of 50 years,**		+ 0.2	1.3	8 6	1 0	0.8		9.9 —	17			The height of the eistern of the ban level of the sea. The readings of the of the Royal Society's finit glass is 9h. A.M.; noon; 3h. P.M.; and 4h. P.M.	ervations en	and degree	daily tempons of the	gistering t	en at the I	applying to the civil	sters, suspense of the surf	The reading of th	oy 3h. P.M. ceased to 30
DIRERENCE		Point	ture	Least.			0.0		3 4		-	5.6	16		-	he hei el of t the E A.M.;	ly valurs' obs	v point	mean ervation	self-re	is tak	lying	rmome et belc	he rec 40 in.	82 in. k
, d		Between Dew Point Temperature and	Air Temperature	Great-		8.4	9 9	12.5	10.01	1.6		7.5	15	-	1	lev of 9h.				the	at tion	api	the 2 fe	29. I	29°
_		Betwe	Moan	daily value,		2.4	9.0	10.1	# C	. 4		4.2	14				nds pre		mous pu				mally.		
- 1		In the Water of the Thames at	Greenwich, by self-registering Thermometers	Lowest		o :	:	::	:	: :		:	13				light clo		he day, a		little snow, fell		ell occasio		
		In the Th	Green self-reg Therm	Highest.	1	38.1	87.8	37.1	000	35.8		37.0	115	HEEL			m, and		uring t	ly.	and'a l	iable.	r snow f		
2000	A LABOR.	on the Grass, as	a self- register-	Minimum Thermo- meter.		28.3	34.5	25.0	10.01	19.0		25.2	1	ATMOSPHERE			l afternoc avy rain f		itervals d	occasiona	the day, and a	id was van	e granula		
Reamment on Tuesmost	THE PROPERTY OF THE PARTY OF TH	Highest in the sun, as shown by	tering Thermo	bulb in vacuo, placed on the Grass.		76.5	39.0	83.6	0 00	41.8		48.5	10	AND			ine during the morning and afternoon, and light clouds pre- ed; overcast at night, and heavy rain fell.	Rain fell frequently.	Thin rain fell at intervals during the day, and	Snow fell oceasionally.	Partially cloudy throughout intervals; cloudless at night.	fine day; the amount of cloud was variable,	A little fine granular snow fell occasionally.		
1 40 80	7 70 85	Dew Point.		daily value.		35.5	35.8	19.8	7.00	26.2	1	28.5	6	SKY			the m	ain fell	hin rai	ercast.	ndy the	the amo	ercast		
N TO TA	, TOPEN		Mean	gaily value.		37.9	36.4	6.6	2000	30.4		32.4	00				during	a.t. R		Generally overcast.	ally clo	day;	Generally overcast.		
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1		Dry.	Low-	est.		31.7	35.2	28.5		26.4	-	29.1	9		-		5	i	Was	noisa			itive re-	ten-	
			High.	est.		46.0	38.2	31.9	2 0.40	33.4	-	36.4	140	ITY.			a cham	an allow		eak ter	able ten	able ten	eak pos ing the	ariable	
BARO-	METER.	daily	rected and re-	32 degr. Fahren- heit).	.5	29 - 409	29.646	29.836			-	29.817	4	ELECTRICITY			We also the second of second	the Control of	At night weak negative town.	Negative, with weak tension as shown generally.	Negative, with variable tension.	Negative, with variable tension.	orning we and dur	re, with y	
Moov	1	a had	Jo	Moon.		•	:	: : :	Equator	First	and test	•	90	ELI			TV of		At night shown.	Negative, with we was shown generally.	Negative,	Negative,	In the morning weak positive was shown, and during the remainder of the day the electricity	wa negativ sion.	
			DAV		И.	22		25.5		28			sumi	-	1		22	23	24 sl	25 W	23	27	85 W ff	= 0	
		1871.	MONTH AND DAY		JANUARY.	SUNDAY	MONDAY.	WEDNESDAY	THORDIAY.	SATURDAY.		MEANS	No. of Columns	DATE.		JANUARY.	SUNDAY .	MONDAY .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAY .	SATURDAY.		. 1
-		-	-				-		-	-	-	-	-	-			-			-	-	-		-	

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# WEEKLY RETURN

# BIRTHS

AND IN NINETEEN OTHER LARGE OF THE UNITED KINCDOM

By Authority of the Registrar General

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FERREL LANE, E.C.

No. 5. 1871. Vol. XXXII. WEEK ENDING SATURDAY, FEBRUARY 4.

> General Register Office, Somerset House, 6th February 1871.

DURING the week ending Saturday the 4th instant, 5287 births and 4207 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM; and the aggregate mortality of the week was in the ratio of

30 deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:-London 27 per 1000; Portsmouth 14, Norwich 29, Bristol 32, Wolverhampton 23, Birmingham 28, Leicester 29, Nottingham 20, Liverpool 47, Manchester 30, Salford 25, Bradford 32, Leeds 28, Sheffield 29, Hull 20, Sunderland 35, and Newcastle-upon-Tyne 22. The deaths from small-pox in these seventeen towns which had been 257 and 214 in the two preceding weeks, rose to 291 last week, of which 196 occurred in London and 90 in Liverpool (an increase of 39 in each), while only five were returned in the fifteen other towns, namely, one each in Manchester, Salford, Leeds, Sheffield, and Sunderland. The annual death-rate during last week from small-pox was equal to 3 per 1000 of the estimated population in London, while it was 9 in Liverpool.

In Edinburgh the annual rate of mortality from all causes last week was 30 per

1000 persons living, in Glasgow 42 per 1000, and in Dublin 36.

It is now 205 days since the Weekly Returns from Berlin, and 140 days since those from Paris, were discontinued on account of the War. In Vienna the annual rate of mortality during the week ending 21st January was 31 per 1000. In Brussels the annual rate of mortality during the week ending 28th January was 49 per 1000; the 166 deaths included 36 from small-pox, a decrease of 14 upon those in the previous week. In the City of Bombay the deaths registered during the week ending 10th January were 290 (exclusive of still-born), and the mortality was at the annual rate of 21 per 1000. In the City of New York the deaths registered in the week ending 14th January were 494, and the equivalent annual rate of mortality was 28 per 1000.

In London the births of 1173 boys and 1177 girls, in all 2350 children, were registered last week. The deaths registered were 1683. During the corresponding weeks of ten previous years, the registered births averaged 2216, and the deaths 1572 per week; after making due allowance for increase of population, the average for the past week is estimated at 2438 births and 1729 deaths; the registered

births, therefore, were 88, and the deaths 46, below the estimated average.

Zymotic diseases caused 396 deaths, including 196 from small-pox, 12 from measles, 49 from scarlet fever, 6 from diphtheria, 43 from whooping-cough, 11 from typhus, 15 from enteric (or typhoid) fever, 13 from simple continued fever, and 14 from diarrhoea; thus from the seven principal diseases of this class 359 were

referred last week against 381 and 330 in the two preceding weeks.

The fatal cases of small-pox in London, which in the first four weeks of this year had been 79, 135, 188, and 157, rose last week to 196, of which 19 were recorded in the Small-pox Hospital at Hampstead, and 8 in the other special hospitals for this disease. After distributing these deaths in hospital among the districts from which the patients were admitted, it appears that of the 196 deaths from small-pox last week, 41 belonged to the West group of districts, 36 to the North, 22 to the Central, 65 to the East, and 32 to the South. The fatal cases showed a decline in the Central and South Districts, while they had increased 20, 11, and 10 respectively in the West, North, and East Districts. Of the 41 deaths in the West Districts, 32 were referred to Westminster; in the East Districts, of

the 65 deaths, 23 occurred among the residents of the Shoreditch District, 10 among those of Bethnal-green, and 8 among those of Whitechapel. In the Southern sub-districts of St. Mary Magdalen and St. James Bermondsey, 12 deaths occurred last week, against but one in the previous week.

After making a correction for those cases in which the feet of vaccination or

After making a correction for those cases in which the rection of thereis was not stated in the certificate of death, it appears that no less than 118 of the fatal cases of small-pox in London last week were of "unvaccinated" children and adults. In a considerable proportion of the 78 cases returned as

"vaccinated," vaccination may never have been satisfactorily performed.

In the five past weeks of the current quarter, 755 deaths from small-pox have been returned in London, of which 348 occurred among children under 5 years of age, 196 among persons aged between 5 years and 20, 168 between 20 and 40, 35 between 40 and 60, and only 8 among persons aged 60 years and upwards. Among children under 5 years the annual death-rate in the five weeks from small-pox was 10.6 per 1000 of the estimated population at those ages; between 5 and 20 years it was 2.6; between 20 and 40 years 2.1; between 40 and 60 years .8; and among persons aged 60 years and upwards only .5 per 1000.

Four fatal accidents caused by horses or vehicles in the streets were returned last week: a butcher, aged 52 years, died in Holborn on 22d January, from injuries through being run over; a waiter, aged 75 years, died in the London Hospital on the 1st instant, from fracture of the jaw through being run over by a van; a painter, aged 42 years, who had been run over in Fenchurch-street by a cart, died in Guy's Hospital on 28th January; and on the same day, at the same Hospital, a carman, aged 51 years, died from injuries through being run over by a cart at

Eltham, Kent.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.83 in.; the highest was 30.09 in. on Tuesday morning, and the lowest 29.52 in. on Saturday afternoon. The mean temperature of the air was 34°.9, or 3°0 below the mean temperature of the corresponding week in 50 years (1814-63) as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 47° 9 on Saturday; the lowest night temperature was 28° 2 on Tuesday; the entire range of temperature in the week was, therefore, 19°.7. The highest temperature in the sun was 65° 9 on Saturday. The mean temperature was below the average on the first five days of the week; on Monday the mean was 30°.7, and 7°.4 below the average, while on Saturday it rose to 43°.8, and exceeded the average by 5°.8. The difference between the mean dew-point temperature and air temperature averaged 2° 5. The mean temperature of the water in the Thames derived from daily observations taken at the "Scorpion" Police Ship was 34° 6 last week. The mean degree of humidity of the air was 91, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air amounted to 6.7 miles per hour. Rain fell on four days of the week, but only to the amount of 0.19 in., of which 0.13 in. fell on Friday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 31°·8 in Nottingham, to 34°·7 in Portsmouth; the lowest recorded night temperature was 22°·8 in Portsmouth, and the highest day temperature in the shade was 48°·8 in the same town. Rain fell in each of the towns furnishing returns; the amount ranging from ·15 of an inch in Birmingham and

Portsmouth to '44 of an inch in Hull.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 1°·61; the highest day temperature in the shade was 8°·83; the lowest night temperature was 2°·11 of frost; the highest temperature in the sun was 18°·83. The mean temperature of the week on an average of 50 years was 3°·28, or 1°·67 above the temperature of last week. The wind blew at the rate of 10·7 kilometres an hour, and the rain-fall was 0·48 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 223,642 cubic metres, and at Barking 204,796 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the Fifth Week of Ten previous Years.

Total Births Males Females .	2050 1049 1001	1862 2020 1007 1013	1863 2111 1123 983	2078 1055 1023	1865 2277 1175 1102	1866 	2390 1237 1153	1868 2364 1207 1157	1869 2316 1134 1182	1870 2378 1172 1206	Average of 10 Weeks.  2215.5  1125.9 1089.6	2350 1173 1177
Total Deaths Males Females .	1544 768 776	1492 763 729	1354 695 659	1655 826 829	1773 852 921	757 660	1628 854 774	1394 735 659	1631 799 832	1828 933 890	1571·6 798·7 772·9	1683 801 882

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. L()NDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS,

										الخفافة			
	Nov. 12.	Nov. 19.	Nov. 26.	De <b>c.</b> 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Jan. 7.	Jan. 14,	Jan. 21.	Jan: 28.	Feb.
OTAL Deaths	1468	1639	1652	1482	1586	1737	1377	1760	1828	1896	1846	1632	1683
Deaths under 5 years of age	644 136	674 150	712 131	629 126	647 159	688 154	540 143	672 150	651 142	660 135	650 156	601 142	603 139
Deaths 20—40	195 236 220 37	219 276 265 55	212 244 293 60	193 222 255 52	219 239 280 42	253 278 301 63	205 215 218 56	250 294 322 72	242 330 391 72	241 355 412 93	271 294 377 98	224 282 318 65	284 285 306 66
Deaths from Small-pox  Measles  Scarlet Fever  Diphtheria  Whooping-cough  Typhus fever	40 19 150 4 20 13	45 36 162 10 28	41 24 122 5 26 6	60 33 180 11 25 12	61 27 116 7 32 12	44 27 135 9 44 9	82 25 104 6 33 16	110 29 110 8 49 10	79 34 112 4 36 10	135 27 77 9 38 10	188 17 68 6 51	157 12 66 8 47 10	196 12 49 6 43
", Enteric (or Ty-) phoid) fever - } ", SimpleContafever ", Diarrhœa	19 8 13	22 13 18	28 10 18	21 15 12	26 16 13	23 15 12	30 12 9	21 13 6	18 9 19	17 11 17	12 17 17	15 5 10	15 13 14
, , , Simple Cholera - , , Phthisis - , , Bronchitis - , , Pueumonia - , , Heart Disease -	154 196 95 75	176 216 107 81	165 257 116 75	144 222 89 79	1 167 244 101 71	173 249 114 74	144 174 75 57	185 265 105 88	186 319 93 102	178 377 91 109	155 309 89 93	162 250 84 71	174 248 90 82
Mean Temperature of the Air	39.1	37.6	46.8	38.9	32.5	42.8	33.0	25.7	31.1	33.0	37.1	32.4	34.9
Mean Temperature of the Water of the Thames	_		-		_	-	_	-	-		-	_	34.6
Humidity of the Air	90	90	87	87	89	92	78	85	84	87.	93	84	91
Rain-fall in inches	0.04	0.18	0.95	0.01	0.84	1.70	0.17	0.42	0.07	0.08	1.32	0.24	0.19
						-							

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.;—W. C. Ellis, Esq., F.M.S., Portsmouth; C.M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nortingham; J. Hartaun, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Sheffield; J. McLaudsborough, Esq., F.G.S., F.M.S., Bradford; Ed., Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 4th day of February 1871, in the following large Towns.

	-4	em day or	reurua	ry 1871, 11	i the lone	ving la	gc 101	1 100			
CITIES	Area	Estimated Population	Persons	BIRTHS Tegistered	DEATHS registered		TURE OF	THE AIR.	TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FA
AND BOROUGHS.	in Acres.	in the middle of the Year 1871:*	to an Acre. (1871.)	during the Week ending 4th Feb. 1871.	during the Week ending 4th Feb. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	n
											-
Total of 20 Towns in the United Kingdom -	213,281	7,336,961	34.4	5287	4207	51.5	22.8	33.7	0.92	0.31	•
LONDON	77,997	3,258,469	41.8	2350	1683	47-9	28.2	34.9	1.61	0.19	
PORTSMOUTH	9,513	125,464	13.2	91	34	48.8	22.8	34-7	1.20	0.12	
Norwich	7,472	81,787	10.9	60	45	43.2	25:0	33.3	0.72	0.30	
BRISTOL	4,688	173,364	37:0	150	105	-			-	0.110	
WOLVERHAMPTON -	3,387	74,438	22.0	52	23	45-8	26.1	32.2	0.58	0.16	
BIRMINGHAM	7,831	878,574	48.3	265	200	47.2	26.2	32*8	0.45	0.12	
LEICESTER	3,200	101,367	31.7	82	57	44.5	26.7	33 4	0.78	0.21	
NOTTINGHAM -	1.996	90,480	45.3	53	34	40.2	26'3	31*8	-0.11	0.16	
LIVERPOOL	5,108	526,225	103.0	401	470	43.5	27.4	33.2	0.84	0.26	
MANCHESTER -	4,486	379,140	84.5	270	221			******	-		1
,		· ·	00.0		60	44.9	27.0	33.5	0.84	0.35	ш
SALEORD	5,472	128,851	23.9	.95	92	38*4	28.0	33.1	0.62	0.51	ı
BRADFORD	.6,590	148,030		131	142	37.0	30.0	33.5	0.67	0.30	ı
LEEDS	21,572	266,108	12°3	220	143	39.5	26.2	32.1	0.06	0.35	ı
SHEEFIELD -	22,830	255,247 135,195	11°2 38°0	190 82	51	40.0	27.0	32.2	0.53	0.44	
HULL	3,562	130,190				100					
SUNDERLAND	3,306	103,037	31.2	63	69	-			1,00	0.01	
NEWCASTLE-ON-TYNE	5,336	136,293	25*5	90	57	40.0	30.0	34.2	1.22	0.21	
EDINBURGH	4,427	179,944	40.6	119	105	40.7	33.0	35.6	2.01 0.11	1.08	1
GLASGOW	5,063	477,627	94.3	338	384	39.4	25.0	32.2	3.83	0.21	
DUBLIN	9,745	322,321	83*1	185	222	51.2	32.2	38 9	2.89	0 21	
7		7.000.012	00					-		_	
PARTS	19,279	1,889,842	98	_	397†			23.84	-1·80+	-	
VIENNA	9,212	622,087	68 52		9577			2001		_	1
BERLIN	15,451	800,000	52	-							1

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will pube available before the middle of the year, and will then be substituted for these estimates.

† The facts for Vienna relate to the week ending 21st January.

TABLE 2.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the ending Saturday the 4th day of February 1871.

							_	_	STREET, SQUARE, SQUARE	Annual Property lies and the last of	Name and Address of the Owner, where the Owner, which is the Owner,		
	ANNUAL			,	Th	e DEA	THS reg	istered	in the	Week in	nelude		
BOROUGHS, &c.  (Municipal Boundaries for all except London.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrliœa.	Violence.	Inquest Cases.
Total of 17 Towns -	29	3496	736	758	291	39	108	13	86	100	37	132	230
LONDON	27	1683	329	372	196	12	49	6	43	39	14	65	122
PORTSMOUTH	14	34	7	7	-	-	-		-	-	-	1	2
NORWICH	29	45	9	16	-	-	3	-	2	-	-	2	3
BRISTOL	32	105	26	29	-	1	3	-	-	-	2	2	4
	00	33	2	14		_		_	_	1	_	1	-
WOLVERHAMPTON -	23	200	55	35		3	1	1	15	2	4	12	24
BIRMINGHAM	28	57	15	15		7	4	1 -	3	-		1	6
LEICESTER	29	34	12	8		1	1	2/1	-	3			3
NOTTINGHAM													
LIVERPOOL	47	470	90	90	90	15	15	-	1.0	34	-16	18	21
MANCHESTER	-30	221	45	46	1	1	6	-	-	5	. 3	7	15
SALFORD	25	60	12	11	1	1	1	-	3	-	-	2	3
BRADFORD	32	92	19	18	-	-	8		1	2	3	4	.5
LEEDS	28	142	35	27	1	3	5	2	1	6	1	.5	6
SHEFFIELD	29	143	38	26	1	2	7	1	2	7 5	1	4	7
HULL	20	51	12	16	-	1	-	1	-	1	- 1	2	.3
SUNDERLAND	35	69	22	12	1	-	4	2	4	1	1	1'	1
NEWCASTLE-ON-TYNE -	22	57	8	16	-	-	1	-	. 2	1	1	5	5
DUBLIN	36	200	25	58	-	-	11	_	10	8	1	6	7

## Deaths from different Causes.

TABLE 5 .- DEATHS in LONDON Registered in the FIFTH Week of the Year 1871.

TABLE 5	-DE	THS	111	LON	DOI	N IV	egi	stere	d in the Fifth Week of the Year 1871.	
	1e 31-70.	Satu	In t	he W	eek Fua:	endiry 4,	ng 1871		In the Week one Saturday, February	ling 4, 187
	Averages of the Fifth Week the 10 years 1861-70		Dea	ths o	f Per		of		CAUSES OF DEATH.	s of
CAUSES OF DEATH.	Fifth 10 ye	ALL AGES.		der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	r 80.
	A in the	Mean			under	under	under	o Years a	E Mean E	and under
Mean Temperature -	43.5	Tem.	0-5.	5-20.	20 and	40 and	60 and	97 08	Mean Temperature - 43.5 34.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 and
ALL CAUSES	1571.6	1683	603		284	285	~			-
SPECIFIED CAUSES	1549.9	1680	601		284		306		10. Fistula 4 1 - 1 1 - 1 1 11. Stomach Disease, &c 6.8 7 8 1 1 2. Puncreus Disease, &c 8 1	3 -
I. ZYMOTIC DISEASES. ORDER 1.									14. Jaundice 3 2 3 1 1 1 5. Liver Disease, &c 13 4 7 - 2 3 5	7
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	19:1 27:4 48:9	196 12 49	91 12 30	48 - 13	45	10	2	1 1	16. Spleen Disease, &c '1 ORDER 5.	-
4. Diphtheria	11·1 1·2 18·5	6	3 - 9	3	-			-	1. Nephritis   1.5   3   1   1   -   -   2. Ischuria   4   -   -   -   3. Bright's Disease (Nephria)   9.3   15   1   2   -   10   4. Diabetes   2.3   4   -   1   1   -   -	2 2
6. Croup	73.0	43 11 15	39 - 2	1 1 5	2	5 1	3	-	4. Diabetes 2.3 4 - 1 1 - 5. Calculus (Stone) 6	1 2
- Simple continued Fever 9. Erysipelas 10. Puerperal Fever (Metria)	5.7	13	4 5	5 3 2 -	- 2 7 2 1 4	3	1	-	7. Kidney Disease, &c 6.6 10 1 2 2 3 ORDER 6.	2
11. Carbuncle	1·3 2·0 1·1	1 3 1	2		1	1	ĩ		1. Ovarian Dropsy 1:0 2 2 2 Uterus Disease, \$\frac{1}{2}\$. Uterus Disease, \$\frac{1}{2}\$.	1
14. Diarrhœa	16.2	14	10	-		-	4	-	ORDER 7. 1. Synovitis (Arthritis)	1
16. Ague	10.2	6	ī	2	-	2	ī -	-	ORDER 8. 1. Phlegmon 2.0 3 2 -	1
ORDER 2.	9.1	3	3	-	_	<u> </u>		-	2. Ulcer 1.5 1 1 3. Skin Discase, &c 1.1	-
2. Stricture of Urethra - 3. Hydrophobia	1.9	1 -	-	-	1 1 1	1 - -	-	-	IV. DEVELOPMENTAL DISEASES, ORDER 1.	
ORDER 3. 1. Privation	1.4	- 6	-6	-	- - 1	-	-	-	1. Premature Birth 20.7 26 26 2. Cyanosis 2.0 4 4	-
3. Purpura and Scurvy - 4. Alco- a Del. Tremens - holism b Intemperance -	2·2 1·0	5 - 1	4		1	-	-	- - -	3. Spina Bifda 1 14	111
ORDER 4.  1. Thrush	2-2	1	1	-	_	_			ORDER 2. 1. Paramenia 1	
H. CONSTITUTIONAL DIS.						-	_		2. Childbirth (see Puer-) peral Fever) } 5.5 11 11 -	
ORDER 1, 1. Gout 2. Dropsy	1'4	2 16	-	- 2	- 2	1 5	7 10	1	ORDER 3.  1. Old Age 72·1 67 ORDER 4.	32
3. Cancer 4. Cancrum Oris (Noma) - 5. Mortification	14.2 25.4 .9 3.7	38 - 4	1		2 5 -	22	10	- 1	1. Atrophy and Debility - 56.2 42 38 - 1 1	2
ORDER 2. 1. Scrofula	9.7	10	5	3	2			-	V. VIOLENT DEATHS, &c. ORDER 1.	
3. Phthisis 4. Hydrocephalus	168·4 28·9	13 174 21	13 9 20	7	100	52	6		(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions 13:3 19 1 2 5 5 2 2 3. Burns and Scalds - 9 7 8 4 2 - 1	4
III. LOCAL DISEASES. ORDER 1.									4. Poison 1'8   1   -   -   -	1
1. Cephalitis	12.6 39.8 37.5	17 42 37	10 8	6	1 2 3 2	12 8	21 22	- 3 4	5. Drowning 3.8 6 2 1 2 1 6. Suffocation 7.8 17 13 - 1 1 7. Otherwise 1.9 5 8 1	2 1
4. Insanity	1.8 3 6.6	5 - 8	- 1	-	2 - 4	3 2	1 1 1	- 1	Order 3. (Homicide.)	
7. Convulsions 8. Brain Disease, &c	57.6 20.0	54 15	1 53 3	ī	2	1	7	ī	1. Murder and Manslaughter 2.4 5 4 - 1 - ORDER 4.	-
I. Pericarditis 2. Aneurism 3. Heart Disease, &c	2°7 3°0 69°4	3 3 82	1	- 2	1 3 22	1 32	- 22	- 2	(SUICIDE.)	_
ORDER 3.	9.2	8	7	-	1	-	_	-	2. Poison 3 3 3. Drowning	
2. Bronchitis 3. Pleurisy 4. Pneumonia	251·3 8·9 90·2	248 5 90	62	5 1 7 2	6 1 5	11	106 2 13	11	4. Hanging 1 1	-
5. Asthma 6. Luny Disease, &c ORDER 4.	20°4 15°5	13 23	11	2	5	3	5 3	ī	ORDER 5. (EXECUTION.)	
1. Gastritis	1·5 5·5 4·5	5 4 4 3	1 2	1 1	1 - 3	1	1	1	Violent Deaths (not classed)	
4. Ascites 5. Ulceration of Intestines - 6. Hernia	4·5 3·1 2·7		1	-	1	2	1 1 1 1	1 1 1 1	Sudden Deaths (Cause un-)	-
7. Ileus 8. Intussusception	2·5 2·9 1·0	1 5 -	1 2 -	1 -	-	1 -	1	-	Ascertained) Causes not specified or ill- defined 1 18.5   1 1	

## Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

ABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

1														au	ring	the	vv ee.	k end	ung
				during	during				The I	DEATE	us reg	gistere	d in t	he We	ek in	elude			
	REGISTRARS' SUB-DISTRICTS.	1	POPU- LATION, 1861.	Total Births du	Total DEATES du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
	LONDON .		2,803,989	2350	1683	329	372	196	12	49	6	43	11	15	13	14	65	122	273
	WEST DISTRICTS - NORTH DISTRICTS - CENTRAL DISTRICTS - EAST DISTRICTS - SOUTH DISTRICTS -		458,125 618,210 383,321 571,158 773,175	317 541 230 541 721	300 369 187 363 464	63 64 22 98 87	72 96 29 62 113	38 57 19 53 29	2 3 - 4 3	10 10 7 2 20	2 1 1 1	9 9 3 10 12	- 6 2 2	3- 4- 1- 3- 4-	2 2 4 1 4	4 1 1 4 4	6 21 12 17 9	13 29 22 39 19	84 82 39 49 69
St. St. St. Ch. Ch. M. B. St. St. St. St. St. St. St. St. St. St	WEST DISTRICTS.  Mary Paddington WH  John Paddington II  misington Town W —  compton H —  Peter Hammersmith H  Faul Hammersmith H  Lelsea South H  Lelsea North-west HWw V  Lelsea North-east H  anover Souare —  ay Fair W —  John Westminster H  Margaret Westminster WH  James's Square W  -  James's Square W  -  James's Square W  -  James's Square W  -  Anne Soho H —		39015 36709 51910 18198 5415 19104 15539 21654 19899 21886 19773 12885 55113 37483 80730 10753 13966 10677 17428	37 18 61 8 3 17 16 9 19 13 5 4 39 26 16 16 3	29 24 34 11 17 10 12 6 14 5 8 29 46 86 4 9 2	8 1 3 3 1 1 4 - 10 10 11 - 2	47 124 163 523 31854 -3-1	1 1 22 9	1	1 1 1 3 1 1	1	1 3 - 1 1 2 2		1	111111111111111111111111111111111111111	1 - 1	1 1 2 1	3 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 68 11
Carried St. St. Island St. W. H.	North Districts.  I Souls Marylebone H vendish Square  Lory Marylebone H Pistelnurch Marylebone H Pistelnurch Marylebone H Pistelnurch Marylebone — unpstead WH — sgent's Park Pancras — ottenham—court wH— ray's Inn Lane H mers Town unden Town W— entish Town W— entish Town W— entish Town W— antish Town W— antish Town W— antish Town W— lington West* WHH lington East Ww— oke Newington L eat Hackney — eathackney — eathackney — eathackney — uth Hackney L		299.52 15090 2669:22493 34913 32540 19106 34997:29871 27808 39099 33266 44817 75442 79899 6608 5483 242451 31481 16468	19 5 14 18 31 22 16 25 20 14 27 16 54 83 97 7 17 30 19	15 4 17 7 9 17 34 15 22 12 18 8 25 56 53 3 2 10 23 19	2 1 2 1 4 5 3 4 4 2 5 4 3 7 7 1 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4 17 35 6 25 5 3 18 9 19 11 28 8	1 - 1 20 2 1 1 1 1 4 9 6 - 1 4 1 4		2 32 3	11	1 2 2 2 1 1 - 1	8	2 2	1	1	1 1 1 1 4 - 5 1 1 - 2 3 - 1 - 1 -	21 - 33 - 52321 8 1 - 22	4 11 1 22 21 11 1 4 - 16 8 1
St.	CENTRAL DISTRICTS.  Gorge Bloomsbury - Giles South WH - Ong Acre - Laring Cross WH - Laring Cross Street - Laring Cross WH - Laring Cross		17802 19483 17201 11618 11071 10846 15207 19903 12947 12012 19152 17239 18079 16209 11504 17800 14778 12931 20990 14778 12931 20990 14780 15805 7762 8570 8659 11544	9 26 15. 7 2 4 8 13 12 5 13 13 9 7 21 5 8 6 8 6 1 1 2 2	5 16 10 4 6 2 9 16 11 5 3 8 8 8 9 4 4 4 8 8 3 9 5 5 20 3 3 1 2 1 1 2	2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 2 1 1 1 2 2 2 1 1 1 3 3 2 2 1 1 1 3 3 2 2 1 1	11 2 1 32 1 6 2 1 1 1 1			THE STATE OF THE S	111 1111 1111 1111 1111 1111 1111	111111111111111111111111111111111111111				111111111111111111111111111111111111111	1 2 2 2 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1	3 6 6 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHEBIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

		during	during				The L	EATH	s regis	tered	in the		k incl	ude			
REGISTRARS' SUB-DISTRICTS.	Popu- LATION, 1861.	Total BIRTHS du	Total DEATHS duthe Week.	Under I Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
East Districts.																	
Holywell Shoreditch	17313 19188 26516 25777 28260 17310	14 12 18 24 27 14	7 13 12 17 26 7	2 3 2 7 5	2 2 1 3 2	1 4 4 6 8	- - - 1			1 - 1	11111	- - 1	11111	1	1 1 -	- 2 5 -	4 - 4 -
Hackney road Green, Bethnal Green WHL† - Church, Bethnal Green Town, Bethnal Green	26298 81789 25528 21486	21 35 19 19	18 40 7 13	5 11 2 2	2 9 3 2	4 2 1 3	- 1	-	-	1 1 -	i i i i	1111		1 -	6 6	14 - -	12
Artillery Whitechapel Spitallields	6557 15700 15392 12122 8062 11166 9971	6 5 4 5 11 4	1 6 7 4 12 7 2	- 1 3 2 2 2 2 1	1 2 2 2 1 -	3 1 1 1 -	111111		1111111	1111111	111111	111111	111111	111111	111111	- - 6 1	9
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	14 14 3	17 10 11	7 5 5	2 2	3 -	1 -	-	ī		1 -	1 -	111	111	. 111	2 - 3	- 6
Shadwell W Rateliff WH Limehouse W	12537 16874 27161	8 13 38	9 9 11	- 3 5	3	1 -		-	-		-	1	- 1		1 1 1	2 1 1	-
Mile End Old Town West Mile End Old Town East Ww	83747 89817	34 54	13 23	4 4	1 3	2	-	-	-	-,	-	- 1	-	1	-	2	3
Bow WwLt	35667 48529	69 51	46 15	4 6	8 2	3 -	1	2 -	-	8 2	1 -			-	-	, <u>-</u>	8
SOUTH DISTRICTS.  Christchurch Southwark W	17069 19101 19652 16668 19190 22675 44468 15082	13 20 14 10 10 21 30	15 9 15 9 10 5 19	3 -4 -8 1 1	7 1 2 5 3 1 4	2 2	1	1 - 1 - 2		1	1111111	111111	1111111	1	1	2 - 1	6 
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rother hithe W	7663 11393 16696 16505 25154 24502	5 4 16 19 64 16	18 9 6 12 29 7	1 2 1 3 9 3	1 2 1 8 2 2	2 1 5 7	11111	- 2		- 1 - 3 -	1	1	11111	111111	3 1 1	5 2 - - 1	15 2 - 1
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	9 13 9 34 21 29 20 8	9 11 11 22 16 11 14 7	2 1 2 3 1 3 5 4	1 2 3 6 5 3 4	1 - 2 3	1	1 1 -		- - - 1 1	11111111	1	1	1	1	2 1 2 - 2	1 1 9
Clapham	20894 19600 13346 - 6481 10082	10 54 11 4 8	10 23 8 3 4	1 5 1 -	5 5 3 3	1	ī -	2 -	1111			1 1 1 1	11111	1	1	2 -	1 2 -
Dulwich	1723 21297 28135 20333	2 20 34 20	2 15 19 11	1 3 5 5	- 3 6 1	-	1111	1	- - 1	- 2	1111	1111	1 1 -	1111	1	1 -	5
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	47 8 9 14	18 6 7 11	3 1 1 1	5 3 2 4	1111				1 -	1117	1111			1111		7
Eltham - Lee Lewisham Village W Sydenham	3009 11003 7372 10595	3 5 9 15	2 4 6 9	1 - 1	1 1 2 3	1111	7-1-1	ī 1 1	=	1 1 1	1111	- - 1	1111	1111	1111		1
Charlton H Woolwich Dockyard H Woolwich Arsenaf H Plumstead West Plumstead East	9276 22919 18776 } 24502 {	4 9 21 14 6	8 11 5 5	2 - 1	1 1 1	1111	1111	1 2 - 1		2 -	1111	1	1	11111	11111	11111	7

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.
The Strand - , , , Tottenham-court sub-district.
London City - , , Haington East.

Do. do. - , , , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.

London City ,, Mile End Old Town Eastern sub-dist. and
Stepney - ,, ,, Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

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TABLE 7 METEOROLOGICAL OBSERVATIC	

						It.	leteor	ologi	cal	Obse:
			Ozone	: :	:	::	::	:	26	nean
RAIN.	Collected in a	whose receiving	surface is 5 in. above the ground.	Inches 0.00 0.01	00.00	0.00	0.13	Sum 0.19	25	re the n
	Robinson's.	Amount of	-	Miles. 139 127	217	144	202	Sum 1123	57	feet abov
		re foot.	Mean of 24 ths	lbs. 0.0 0.0	0.1	0.0	0.0	:	23	be 159
	emomet	onsdna	Least.	lbs. 0.0	0.0	0.0	0.0	:	61	ed to
WIND.	from An	Pressure on square foot.	Great-	lbs. 0.0 0.1	6.0	9.0	1.2	:	21	msider
	As deduced from Anemometers.		P.M.	NNE. &	ESE.	Calm. WSW. &	SSE. & SSW. SSE.	able.	08	NOTES.
		General Direction.	A.M.	N.&NNE.	ESE.	E. Calm &	E. & SE.	Variable.	19	NOTES.  The height of the cistern of the baroucter is considered to be 159 feet above the mean
Degree	midity, complete	tion	sented by 100.	06	74	94	98	16	18	cistern
M	Between mean tem-	the day and	the same day on an average of 50 years. *	0.4.7	- 7.1	1 3.1	+ 5.8	3.0	, 17	wht of the
DIFFERENCE	Point	ure	Least.	1.8	4.7	0.0	0.0	1:1	16	he hei
DIF	Between Dew Point Temperature	Air Temperature	Great-	0.4.0	8.7	3.6	1.5	4.0	15	
	Betwee	Air T	Mean daily value.	C.91 92 1.73	0.1	1.6	0.5	2.2	14	
-	ater of	ch, by tering	Lowest.	30.6	32.4	33.1	34.2 33.9	32.7	13	
	In the Water of	Greenwich, by	Incrmometers.	36·1	37.8	35.0	36.4	36.5	12	HERE
ERS.	Lowest on the Grass, as	a self-		31.2	24.0	33.0	33.7	9.08	11	AND ATMOSPHERE
READINGS OF THERMOMETERS	-		meter with blackened build in vacuo, placed on the Grass.	24.4 33.9	39.7	40.3	43.8	44.8	10	SKY AND A
GS OF 7	Dew Point.	Mean	daily value.	30.7	23.8	31.1	38.0	32.4	6	50
READIN		Mean	daily value.	33.4	30.8	32.7	10.0 38.5 7.5 43.8	34.9	000	
I	y.	Range Mean	in day.	2.0	5.2	3.5		2.2	1	
	Dry.	-	High- Low-	32.2	28.2	29.0	33.7	32.4	9	
				35.7	33.7	36.9	43.7	38.2	5	NITY.
BARO-	Mean daily reading	rected	duced to 32 degr. Fahren heit).	in. 30.006 35.7 Apogee, 29.966	30.048	29.845 36.6 29.0 29.820 36.9 33.7	29.568 43.7 33.7 29.542 47.9 40.4	29.828	1 4	ELECTRICITY
Moon.		Phases	Moon.	Apogee.	:	Greatest 29.845 Dec. N.	::	:	60	PE
	1871.	Mound And DAY	THE THE THE	JANUARY. SUNDAY . 29	TURENAY . 31	FEBRUARY. WEDNESDAY 1	FRIDAY 3 SATURDAY. 4	MEANS	No. of Columns.	DATE.

A little fine snow fell during the early morning. Variable amounts of cloud were prevalent during the morning; overeast at unight. Overcast throughout. Snow fell thinly during the day shown throughout the morning;
weak positive in the attention, and
weak negative at night.
Weak negative was shown
throughout. Negative, with variable tension, Negative, with weak tension, was

was shown throughout.

SUNDAR

of the Royal Society's flint glass standard barometer. The observations are taken at 9h. A.M.; noon: 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry

noon; 3h. P.M.; and 9h. P.M.

Generally cloudy. A little snow fell at Leicester.

TUESDAY ..

Overeast throughout. Foggy and very gloomy in the morning Thin rain fell Snow fell at Wolverhampton. Overeast. A little snow fell in the morning. occasionally. Dense mist at night. Snow fell at W

Weak positive in the morning; nogative, with variable tension, during the remainder of the day. Negative, with variable tension, during the day; no indications at

THURSDAY

ricity, with variable tension, was The insulating lamp was not burning during the day. A little weak negative was shown at night.

4

SATURDAT

Overcast, Slight fog. Rain fell between 9h. 30m. A.M. and 1h. P.M., and again between 4h. 30m. and 6h. P.M. At 9h. A.M. strong negative was observed, and throughout the remainder of the morning there

thermometer, and the wet thermometer, observed at these times, are converted into mean daily values by the application of corrections detuced by J amos Galsiter, R.L.S., from itve years' observations enting 18k3, December 31.—See  $P^{i,L}$ ,  $T^{i,Cans.}$ , part 1.18k3. The mean daily dew point and degree of hundidy are deduced from those mean daily values of the dry and we bulb themometers by Galsiber's Hygrometrical Tables, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9h. A.N.; noon; 3h. P.N.; and 9h. P.M., as well tions taken at the Boyal Observatory, Greenwich, in the 50 years ending 1863, December 31.

\*In reading the 17th column twill be bornen in mind that its read "highery" and "begin than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight. as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the thermometrical observa-

The temperature of the water of the Thames is accretained by the use of self-registering thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the superintendence of the resident inspector on board the ship, by permission of Lieut.-Col Henderson, R.E., C.B., Commissioner of Metropolitan Police.

30.42 in by 101. A.m. on the 28th decreased 129 951 in, by 81 a.m. on the 30th; increased to 30.90 in, by 91. A.m. on the 30th; increased to 30.90 in, by 91. A.m. on the 31st of January; decreased, with slight exceptions, to 29.54 in. by 31. P.m. on the 34 of February; increased to 29.57 in. by 91. A.m. on the 4th; decreased to 29.57 in. by 91. A.m. on the 4th; decreased to Generally cloudy. Rain fell between 7h. P.M. and 9h. P.M.

The reading of the barometer increased from 29.98 in, at the beginning of the week

### WEEKLY RETURN

OF

## BIRTHS AND DEATHS IN

OF THE UNITED KINGDOM

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 6. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, FEBRUARY 11. [Price 1d.

General Register Office, Somerset House, 13th February 1871.

During the week ending Saturday the 11th instant, 5323 births and 4158 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom; and the aggregate mortality of the week was in the ratio of

30 deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 28 per 1000; Portsmouth 17, Norwich 24, Bristol 21, Wolverhampton 35, Birmingham 24, Leicester 23, Nottingham 26, Liverpool 45, Manchester 32, Salford 26, Bradford 31, Leeds 27, Sheffield 26, Hull 17, Sunderland 25, and Newcastleupon-Tyne 29. The deaths from small-pox in these seventeen towns, which had been 214 and 291 in the two preceding weeks, further increased to 303 last week, of which 211 occurred in London and 86 in Liverpool, while but six were returned in the fifteen other towns, namely, two in Hull, and one each in Norwich, Manchester, Sunderland, and Newcastle-upon-Tyne. The annual death-rate from small-pox during last week was equal to 3·4 per 1000 of the estimated population in London, while it was 8·6 in Liverpool. The proportion of deaths from small-pox "after vaccination" was much larger last week in Liverpool than in London.

In Edinburgh the annual rate of mortality from all causes last week was 33 per

1000 persons living, in Glasgow 39 per 1000, and in Dublin 32.

It is now 30 weeks since the Weekly Returns from Berlin, and 21 weeks since those from Paris, were discontinued on account of the war. In Vienna the annual rate of mortality during the week ending 28th January was 31 per 1000. In Brussels the annual rate of mortality during the week ending the 4th instant was 49 per 1000; the 167 deaths included 36 from small-pox, corresponding with the number of fatal cases in the previous week. In the City of Bombay the deaths registered during the seven days ending 17th January were 308 (exclusive of stillborn), and the mortality was at the annual rate of 20 per 1000. In the City of New York the deaths registered in the week ending 21st January were 534, and the equivalent annual rate of mortality was 30 per 1000.

In London the births of 1257 boys and 1209 girls, in all 2466 children, were registered last week. The deaths registered in the same time were 1749. During the corresponding weeks of ten previous years the registered births averaged 2225, and the deaths 1466 per week; after making due allowance for increase of population, the average for the past week is estimated at 2448 births and 1613 deaths; the registered births, therefore, were 18, and the deaths 136, above the estimated

average.

Zymotic diseases caused 434 deaths, including 211 from small-pox, 9 from measles, 46 from scarlet fever, 10 from diphtheria, 51 from whooping-cough, 13 from typhus, 14 from enteric (or typhoid) fever, 16 from simple continued fever, and 14 from diarrhœa; thus to the seven principal diseases of this class 384 deaths were referred last week against 330 and 359 in the two preceding weeks. The largest

increase was shown in the fatal cases of whooping-cough and small-pox.

The fatal cases of small-pox in London, which in the first five weeks of this year had averaged 151, rose to 211 last week, showing a further increase of 15 upon the previous week. Of these 211 deaths, 19 occurred in the new Small-pox Hospital at Stockwell, 13 each in those at Hampstead and in St. Margaret's Westminster, 12 in that at Homerton, 4 in the Islington Small-pox Hospital, and 4 in the smaller temporary hospitals for this disease. After distributing, as far as is practicable, these deaths in hospital among the districts from which the patients were

[6.]

admitted, it appears that 45 deaths from small-pox last week belonged to the West group of Districts, 39 to the North, 14 to the Central, 80 to the East, and 33 to the South. The fatal cases showed a further decline in the Central Districts, while they had increased in each of the other groups. Of the 45 deaths in the West Districts, 32 occurred in Westminster; in the East Districts, 34 deaths were returned in Shoreditch, 20 in Bethnal-green, and 10 in Whitechapel. In the South Districts all the 19 fatal cases registered in Brixton sub-district occurred in

the new Small-pox Hospital at Stockwell. The mortality from small-pox varies with age. Thus in the last week the annual rate per 1000 in children under five years of age was 10.7; in young persons of 5 and under 20 it was 3.2; in persons of the age 20-40 it was 2.7; in men and women of 40-60 it was 0.8; and after 60 the rate was nominal. This has an important bearing on the question: does the protective power of vaccination wear out with time? The persons who die in 1871 at the age 20-40 must have been born about the years 1831-51; while those who die at the age 40-60 must have been born about 1811-31. Now it is not likely that the numbers born in 1811-31 were vaccinated in any larger proportion than those born 20 years later; the balance is probably on the other side, yet the mortality at the advanced age 40-60 was only one third of the mortality at the age 20-40. The danger of dying from small-pox diminishes rapidly as age advances, which could not be the case if the effect of vaccination were out with time. The facts of the ten years 1851-60 over all England bear out this deduction.

Four fatal accidents caused by horses or vehicles in the streets were returned

last week, making 22 in the past six weeks of the current quarter.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.72 in.; the highest was 30.03 in. on Tuesday morning, and the lowest was 29.06 in. on Friday afternoon. The mean temperature of the air was 41°.6, or 2°.9 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 52°.2 on Monday; the lowest night temperature was 25° 0 on Saturday; the entire range of temperature in the week was, therefore, 27° 2. The highest temperature in the sun was 79° 5 on Monday. The mean temperature was above the average on the first five days of the week, and was 47° 0 on Wednesday, showing an excess of 8°1; on Saturday the mean was only 26°5, and so much as 12°1 below the average. The difference between the mean dew-point temperature and air temperature averaged 5°·1. The mean temperature of the water in the Thames, derived from daily observaions taken at the "Scorpion" Police Ship, was 40°·1 The mean degree of humidity of the air was 82, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air averaged 15 miles per hour. Rain fell on four days of the week to the amount of 0.72 in., of which rather more than a quarter of an inch fell both on Tuesday and on Friday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 43° 4 in Portsmouth to 37° 8 in Norwich; the lowest recorded night temperature was 20° 0 in Norwich, and the highest day temperature in the shade was 55° 2 in Portsmouth. Rain fell last week in each of the towns furnishing returns; the amount measured ranged from rather more than the quarter of an inch in Newcastle-upon-Tyne to 1.79 in. in Salford. There was a

heavy fail of snow at Norwich on Friday afternoon, and on the following day the minimum reading of the thermometer in that city was 20° 0.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 5°·33; the highest day temperature in the shade was 11°·22; the lowest night temperature was 3°.89; the highest temperature in the sun was 26° 39. The mean temperature of the week on an average of 50 years was 3°·72, or 1°·61 below the temperature of last week. The wind blew at the rate of 24 kilometres an hour, and the rain-fall was 1.83 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 300,535 cubic metres, and at Barking 278,792 cubic metres, equivalent to about as many tons by weight.

Table I. LONDON.—Births and Deaths Registered LAST WEEK, and in the Sixth Week of Ten previous Years.

Total Births  Males Females .	2066 1067 999	2197 1095 1102	2093 1055 1038	2005 1009 996	2336 1171 1165	2315 1166 1149	1867 2299 1173 1126	2397 1162 1235	1869 2249 1152 1097	2289 1185 1104	Average of 10 Weeks.  2224.6 1123.5 1101.1	2466 1257 1209
Total Deaths Males Females	1459	1384	1310	1647	1589	1316	1567	1394	1426	1568	1466·0	1749
	727	704	629	803	764	691	850	738	724	763	739·3	875
	732	630	681	844	825	625	717	656	702	805	726·7	874

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70-after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	_									_			
	Nov. 19.	Nov. 26.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Jan.	Jan. 14.	Jan. 21.	Jan. 28.	Feb.	Feb.
TOTAL Deaths	1639	1652	1482	1586	1737	1377	1760	1828	1896	1846	1632	1683	1749
Deaths under 5 years of age - Deaths 5-20	674 150	712 131	629 126	647 159	688 154	540 143	672 150	651 142	660 135	650 156	601 142	603 139	640 166
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	219 276 265 55	212 244 293 60	198 222 255 52	219 239 280 42	253 278 301 63	205 215 218 56	250 294 322 72	242 330 391 72	241 355 412 93	271 294 377 98	224 282 318 65	284 285 306 66	260 281 333 69
Deaths from Smallpox - , , Measles - , , Scarlet Fever , , Diphtheria	45 36 162 10	41 24 122 5	60 33 130 11	61 27 116 7	44 27 135 9	82 25 104 6	110 29 110 8	79 34 112 4	135 27 77 9	188 17 68 6	153 12 65 8	196 12 49 6	211 9 46 10
Whooping-cough Typhus fever Enteric (or Ty-)	28 12 22	26 6 28	25 12 21	32 12 26	9 23	33 16 30	49 10 21	36 10 18	38 10 17	51 5	47 10	48 11*	51 <sub>s</sub> . 13
phoid) fever - \{ y, Simple Contd fever y, Diarrhæa - y, Simple Cholera -	13 18	10 18	15 12	16 18 1	15 12	12 9	13 6	9 19 —	11 17	17	5 10	13 14.	16 14 —
", Phthisis Bronchitis Pneumonia - Heart Disease -	176 216 107 81	165 257 116 75	144 222 89 79	167 244 101 71	173 249 114 74	144 174 75 57	185 265 105 88	186 319 93 102	178 377 91 109	155 309 89 93	162 250 84 71	174 248 90 82	175 223 83 75
Mean Temperature of the Air	37.6	46.8	38.9	o 32·5	42.8	33.0	25.7	31.1	33.0	37.1	32.4	34.9	41.6
Mean Temperature of the Water of the Thames -}	_	_			-		_			_		34.6	40.1
Humidity of the Air	90	87	87	89	92	78.	85	84	87	93	84	91	82
Rain-fall in inches	0.18	0.95	0.01	0.84	1.70	0.17.	0.42	0.07	0.08	1.32	0.54	0.:19.	0.72

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S. :—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., P.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; D. Doneaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Lecds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered and METEOROLOGY during the Week ending Saturday, the 11th day of February 1871, in the following large Towns.

	1	1th day of	Februa	ary 1871, 1	n the follo	wing la	rge To	WNS.		1 1	
CITIES	Area	Estimated	Pérsons	Births registered	DEATHS registered		ATURE OF AHRENHE	THE AIR.	TEMPERA- TURE OF THE AIR. (CENTI-	Ráin	FALL.
AND BOROUGHS.	in Acres.	Population in the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 11th Feb. 1871.	during the Week ending 11th Feb. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Cent metro
Total of 20 Towns in the United Kingdom -	213,281	7,336,941	34.4	5323	4158	55.2	20.0	41.3	5.17	1:07	2.7
LONDON	77,997	3,258,469	41.8	2466	1749	52.2	25.0	41.6	5.33	0.72	1.8
PORTSMOUTH	9,513	125,464	13.2	93	42	55 2	24.2	43.4	6'33	0.28	1.4
Norwich	7,472	81,787	10:9	58	- 37	50.2	20.0	37.8	3.22	1.72	4.3
BRISTOL	4,688	173,364	37.0	121	70		-	1	· ammi	ا جنه ا	
WOLVERHAMPTON -	3,387	74,438	22.0	46	- 50	52.2	28.2	41.7	5.39	0.99	2*5
BIRMINGHAM	7,831	378,574	48.3	259	174	52.8	28.4	42.5	5.84	1.02	2.5
LEICESTER	3,200	101,367	31.7	65	44	51.5 .	26.5	40.9	4.94	0.95	2.41
NOTTINGHAM	1,996	90,480	45°3	60	45	53*3	27.5	42.8	6.00	0.97	2.40
LIVERPOOL	5,108	526,225	103.0	317	455	51.0	27.9	41.2	5.11	0-77	1.96
MANCHESTER	4,486	379,140	84.2	275	235		-				
SALFORD -	5,172	123,851	23.9	109	61	51.2	29*2	41.7	5*39	1.79	4.5
BRADFORD -	6,590	148,030	22.5	113	89	51.0	29*8	41.6	5.33	0.72	1.8
LEEDS	21,572	266,108	12.3	170	139	51.0	30.0	42.2	5.67	1.12	2.84
SHEFFIELD	22,830	255,247	11.5	185	129	51.0	28.6	40.6	4.77	1.01	2.5
HULL	3,562	135,195	38.0	100	44	50.0	26-0	38.1	3.39	1.04	2.6
SUNDERLAND -	3,306	103,037	31.2	67	50	~~~	28*0	38.8	3.77	0.36	0 9
NEWCASTLE-ON-TYNE	5,336	136,293	25.5	134	77	50.0			6.00	1.30	3*30
EDINBURGH	4,427	179,944	40.6	113	113	50.7	36.0	42.8	4.77	2*30	5.84
GLASGOW	5,063	477,627	94°3 33°1	364	356	51.0	31.6	40.6	6.95		2.51
DUBLIN	9,745	322,321	33.1	208	199	55.2	27.0	44.5	0 95	0.87	2 2
PARIS	19,279	1,889,842	98	· Name of the last				pro-10			
VIENNA	9,212	622,087	68		370†		_	27.7†	-2:38†	- 4	-
BERLIN	15,451	800,000	52				-		-		_
	,	000,000						i i			

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probable available before the middle of the year, and will then be substituted for these estimates.

† The facts for Vienna relate to the week ending 28th January 1871.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Wee ending Saturday the 11th day of February 1871.

		0						J						
	ANNUAL				Th	e Deat	rns reg	istered	in the	Week in	relude		ķS.	
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measies.	Scarlet Ferer.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence,	Inquest Cases.	In Public
Total of 17 Towns -	29	3490	783	720	303	42	100	15	100	105	25	114	213	6:
LONDON*	28	1749	359	402	211	9	46	10	51	43	14	53	121	40
PORTSMOUTH	17	42	. 8	.14	-		1	1.2	-	1	_	-1	:1.	-
Norwich	24	37	7	8	1	_	3	- 2	3	1		2	3	
BRISTOL	21	70	21	15		1	5		1	1	-	2	3	
WOLVERHAMPTON -	85	50	12	10		1		_	-	2	_	6	7	1
BIRMINGHAM	24	174	53	30		2	3	_	7	7	2	8	15	2
LEICESTER	23	44	15	8	-	_	5		1	_	_	1	3	. :
NOTTINGHAM	26	45	8	8	-	-	-	2		2	-	1	3	
LIVERPOOL	45	455	96	81	86	17	12	1.	19	20	4	17	. 20	9
MANCHESTER	32	235	42	40	1	10	6	-	2	. 8	1	6	11	3
SALFORD	26	61	21	6	-	. 1		. 1	. 3	1	1	1	1	1
BRADFORD	31	89	26	17		-	3	7	-	4	-	-2	7	1
LEEDS	27	139	32	34	-	1	7	2	4	(i	2	7	9	1
SHEFFIELD	26	129	43	15	-	-	5	1	6	5	-	. 1	2	1
HULL	17	44	10	8	2	-	1	-		-	1	1	1	
SUNDERLAND	25	50	13	8	1	-	3	-	3	1	-	1.	1	
NEWCASTLE-ON-TYNE -	29	. 77	-22	16	1	-			-	8	-	4	5	
DUBLIN	32	199	32	49		2	4		17	4	4	3	3	4

## TABLE 5 .- DEATHS in LONDON Registered in the SIXTH Week of the Year 1871.

							0										
	Averages of the Sixth Week 1. the 10 years 1861-70.	Satu	In thurday	e W	eek e	ndir y 11	ıg , 187	1.		of the Veek 's 1861–70.	Satu	In th	e W	eek e	endin y 11,	g 1871	
CATTOTIC ON THE MILE	es of 1 Week ars 18	1	Deat	hs of the	Pers Ages	ons	of		CAMBRIC OF PRAME	Week ars 18	1	Death	the .	Pers Ages	ons o	of	
CAUSES OF DEATH.	verag Sixth 10 ye	ALL AGES.	Un		r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages of Sixth Wee the 10 years 1	ALL	Und 20		r 40.		. 80.	апа
	A in the	Mean		-	under	under	nnde	rds.		Ay in the	Mean	1		under 40	under		
Mean Temperature -	41.2	Tem. 41.6	0-5.	5-20.	20 and	40 and		80 Yea прия	Mean Temperature -	41.2	Tem.	0-6.	5-20.	20 and	40 and	60 and	upwards.
ALL CAUSES	1466.0	1749	640	166	260	281	333	69	9. Stricture of Intestines -	1:0	1	1	-	-	-	_	-
SPECIFIED CAUSES	1438.1	1741	636	165	258	281	332	69	10. Fistula	5.9	4 -		1	-	1 2	1	ā
I. ZYMOTIC DISEASES. ORDER 1.							j		13. Hepatitis	2.5 3.2 14.7	2 4 20	1 - 1	-	1 6	1 1 5	2 8	-
1. Small-pox	14·4 24·7 51·1	211 9 43	88 7 33	60 1 13	53	9	1 -	-	16. Spleen Disease, &c ORDER 5.				-	-	-	-	-
4. Diphtheria	10.9	10	6 -	1 -	2	-	1	-	1. Nephritis	1.8	2 -	- 1,	1	=	1	-	-
6. Croup 7. Whooping-cough 8. Typhus)	68.6	51 13	14 48 -	3 2	5 5	3	3	-	3. Bright's Disease (Nephria) 4. Diabetes	9.2	11 2 1	1 -	-	3 -	2	3 -	1
- Enteric or Typhoid Fever - Simple continued Fever - 9. Erysipelas	8.5	14 16 15	6 5 4	8 -	5 1 4	4 4	2 3	1	6. Cystitis 7. Kidney Disease, &c	1·4 8·3	13	ī	1	3	4	5	-
10. Puerperal Fever (Metria) 11. Carbunele 12. Influenza	3.6 1.1 2.1	6 -	-	-	4 -	2 -	-	1111	ORDER 6.  1. Ovarian Dropsy  2. Uterus Disease, &c	-°4 3°4	2	-	-	1	1 -	1	-
13. Dysentery	2°4 14°4 °4 °3	14 - -	6 -	1	ī	1	5	1	ORDER 7.  1. Synovitis (Arthritis) -	*2	- 6	- 1	- 1	3	ī	-	-
17. Remittent Fever = = = = = = = = = = = = = = = = = = =	8'4 2	111	- - 1	4	2	2	3		2. Joint Disease, &c ORDER 8.		2	ļ	_				
19. Other Zymotic Diseases - ORDER 2. 1. Syphilis	7.8	7	6	_	1		-		1. Phlegmon	2°1 1°5 1°4	3 2	1 2	-	1	-	1	-
2. Stricture of Urethra 3. Hydrophobia 4. Glanders	1.6	-	-	-	-	-		-	IV. DEVELOPMENTAL DISEASES.								
ORDER 8. 1. Privation	1.0	8	- 8	-	-	-	-	H	ORDER 1.  1. Premature Birth	19.3	23	23	H	-	-	-	-
3. Purpura and Scurvy - 4. Alco - 1 a Del. Tremens - holism   b Intemperance -	1.3	- 1	- 1 - 1	-	- 1			1 1 1	2. Cyanosis 3. Spina Bifida 4. Other Malformations -	2·9 1·4 1·2	13	3 2 -	-	=	- 1	1.3.1	-
ORDER 4.	2.8	2	2	-		-	-	-	5. Teething ORDER 2.	20.1	13	18		-	_	-1	-
2. Worms, &c		-	-	-		-		_	1. Paramenia 2. Childbirth (see Puerperal) Fever)	5.6	5	-	1	4	-	-	-
ORDER 1.		2	_	-	-	1	1	_	ORDER 3. 1. Old Age	65.0	81			_		41	40
2. Dropsy 3. Cancer	1.7 14.8 27.2	21 26	3 -	1 -	5 -	6 12	8	1	ORDER 4.  1. Atrophy and Debility -	53.8	66	55	1	-	3	7	
5. Mortification ORDER 2.	4.2	6	-		-	ī	4	1	V. VIOLENT DEATHS, &c.								
1. Scrofula	8°6 15'0 161'0	12 25 175 23	6 22 9 21	6 2 14	1 89	53	9	1	ORDER 1. (ACCIDENT OF NEGLIGENCE.)								ı
4. Hydrocephalus III. LOCAL DISEASES.	28.9	23	21	2	-		1	-	1. Fractures and Contusions 2. Wounds 3. Burns and Scalds	15.4	17	1 - 4	1 - 2	3	4	5	2
ORDER 1. 1. Cephalitis	12.8	13	12	1	-	_	- 1	_	4. Poison	8·2 10·6	1 2 14	14	-	1	ī	-	E
2. Apoplexy 3. Paralysis 4. Insanity	30.0	38 2	3 -	- 2	6 2	16 10 2	16 22	2 4	6. Suffocation 7. Otherwise	1.9	4	1	1	=	1	ī	E
5. Chorea	6.9	9	74	4 3 2	2	1	2	-	ORDER 3. (HOMICIDE.)								
7. Convulsions 8. Brain Disease, \$c ORDER 2.	57°1	77 24	6	2	1	4	10	ī	1. Murder and Manslaughter ORDER 4.	3.4	-	-	-			-	
1. Pericarditis 2. Aneurism 3. Heart Disease, &c	2.1 1.6 65.0	5 2 75	=	- 4 - 8	2 11	1. 26	27	3	(SUICIDE.)  1. Wounds {Gunshot Cut, Stab	*2	-	-	-	-	-	-	-
ORDER 8.	8·7 203·7	10 223	9 55	1 3	10	56	93	-6	2. Poison Cut, Stab 2. Poison	1 1 1	2 - 1 2	-	1	1111	1	1 -	
2. Bronchitis 3. Pleurisy 4. Pneumonia 5. Asthma	3°5 75°1	88	49	. 4	1 1	ıī	10	1 3	5. Otherwise ORDER 5.	1.7	2	-	1			1	-
5. Asthma	14.0	19 19	4	1	8 1 2	6	6	-	(EXECUTION.)  1. Hanging =	-	_	1.		_	_	_	
1. Gastritis	2°0 5°0 4°4	5 3	1	- 2	1	1 2 -		1	Violent Deaths (not classed)	•1	-	1	_	_		-	-
4. Ascites +	2 0 3 1 2 8 2 3	7 7 3	1	2	1	2 2 1	1	- 1	Sudden Deaths (Cause un-	3.7	1	1	-	-	-	-	-
6. Hernia	2.3	3 -	-	-	-	1 -	2 -	-	ascertained) Causes not specified or ill- defined	24.2	7	3	1	2	-	1	-
		-	-				-				-	_	_		-	-	

TABLE 6. LONDON.-Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

	, , , , , , , , , , , , , , , , , , , ,										dur	ing	the	Wee	k en	ding
. Technological desires	during	during				The	DEAT	ns re	gistere	d in	the W	7eek 1	nelude	3		
REGISTRARS' SUB-DISTRICTS.	Total Births du	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhœs,	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	2,803,989 2466	1749	359	402	211	9	46	10	51	13	14	16	14	53	121	400
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS SOUTH DISTRICTS	458,125 340 618,210 564 383,321 252 571,158 586 773,175 724	318 382 185 405 469	68 62 24 98 107	78 94 46 71 113	40 56 11 71 83	2 1 3 8	8 15 1 9 13	2 4 - 1 8	9 16 4 15 7	- 8 1 - 4	2 3 1 1 7	6 1 3 4 2	3 1 1 2 7	10 8 8 20 7	17 28 13 57 11	77 96 48 84 95
WEST DISTRICTS   St. Mary Paddington WH	39015 42 36769 19 51910 61 18198 12 5415 7 19104 26 1.5539 20 21654 18 19899 12 21886 14 19773 10 12885 8 5:113 23	24 17 33 6 8 17 17 16 33 14 6 7	6432-42455214	. 5 4 13 7 5 15 4 9	111111111111111111111111111111111111111	111 111 111 1111	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		13 TTTT 11 TTT	111111111	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 2 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1	4 7 1 1 6 1 20
St. John Westminster HHH - St. Margaret Westminster WWIIH - St. James's Square - Golden Square W - Berwick-street - St. Anne Soho HH - NORTH DISTRICTS.	37483 28 30730 16 10753 3 13966 5 10607 7 17426 9	24 38 4 13 6 11	7 8 - 4 2 5	3 1	12 20 -	1 7 1 7 1 7 7	1 -	1	1	111111	1	1	11111	2	3 111	20 - 6
All Soula Marylebone HH Cavendish Square - Hectory Marylebone WH St. Mary Marylebone H Christchurch Marylebone St. John Marylebone Hampstead WHH Regent's Park Paneras - Tottenham-court wH Gray's Inn Lane H Somers Town	29952 17 15090 4 26692 23 22493 25 34913 27 32540 27 19106 23 34927 29 29371 25 27808 20 30099 32	15 5 15 5 18 12 19 11 28 20 19	1 3 3 2 1 5 2 5	3 1 6 1 1 3 4 3 5 1	3 - 1 14 - 3 2 -	1	1	1	1 - 2 1 2 3	11111111111	1	111111111111111111111111111111111111111	HAR CHIEFE	1 1 8 2	2 1 - 1 - 3 3 1	8 1 1 13 10 4
Camden Town W	23266 18 44317 49 75442 81 79899 75 6608 4 5483 5 24265 28 31481 35 15458 17	16 28 64 45 2 1 10 41 13	6 3 14 4 2 - 3 2 4	6 7 14 16 - 1 2 9 3	1 2 9 2 - 1 18 -	- - - - - -	2 2 3 - 2 2 2	1	2 1 - 1 - 1	6 1 - 1 - 1 - 1	2		1	1	7 - 1 - 2 -	9 5 14 5 - 23 -
St. George Bloomsbury St. Giles South WH St. Giles North Long Acre Charing Cross WH St. Mary-le-Strand St. Clement Danes H St. George-the-Martyr HHHH St. Andrew East Holborn W Saffron Hill St. James Clerkenwell Amwell Clerkenwell Pentonville Goswell-street Old-street Old-street City-road WHHL Whiteoross-street Finsbury St. Botolph East London HH Cripplegate St. Sepulchre H St. Bride W	17392 10 19483 21 17201 7 11618 7 1071 4 10346 4 15207 7 19903 18 12947 5 12012 4 10152 18 13079 18 13079 18 13079 13 14778 11 17860 31 14778 11 12931 5 20990 6 10997 7 11750 4 15395 9	5 6 11 2 10 -8 10 12 5 11 7 7 7 8 11 9 6 8 8 5 7 7 7	312 1 31 341 1 1	1 -4 21 -3 351442111312 41123	-1-11112-2-1	1	HELLER CHILLIAN COLUMN		111111111111111111111111111111111111111		111111111111111111111111111111111111111	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	211 1111 111111111111111111111111111111	1 1 - 21 - 11 - 5	- 6 - 4 - 7 - 8 1 - 1 - 23
Castle Baynard	7762 8 9020 1 8570 5 8659 2 11544 8	1 2 2 -	ì	1	11111		11111		1	11111	11111			1	1	

<sup>†</sup> Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 11th February 1871.

Saturday, 11th February. 1871.	4																
		during	during				The I	EATE	ıs reg	istere	d in t	the W	eek ir	clude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total Birris dui	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Djphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.   Holywell Shoreditch	17313 19188 26516 25777 23260 17310	11 14 20 39 29 11	10 18 32 17 17 10	565652	300000	6 12 9 3 4	131111	2 - 1 1		1	111111	11111	111111	111111	2 -	7	3 10 - 4
Hackney-road Green, Bethnal Green WHL† - Church, Bethnal Green - Town, Bethnal Green -	26298 31789 25528 21486	18 35 22 14	21 28 14 22	3 5 2 8	4 7 5 1	6 1 4 9	1111	2	1131	1 -	1111	1111	1111	1111	2	11 3 6	8 -
Artillery Whitechapel Spitalifelds	6557 15700 15392 12122 8062 11166 9971	6 16 20 10 6 8 5	3 8 22 3 19 7 3	1 3 4 - 3 1 -	- 5 - 2 1	1 - 7 	1111111	1111111		2 1	1111111	111111	1	mirrara.	1 4	1461511	14 - 16 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	14 15 15	8 6 9	2 4 1	1 - 2	111		-	-		-	111	ī	111	1	1 -	7
Shadwell W Ratcliff W H Limehouse W	12537 16874 27161	9 12 41	7 12 12	2 4 1	2 -	2 -	1	171	11.1	1.1.1	111	7.1.1			1	3 2 2	1 1 1
Mile End Old Town West Mile End Old Town East WwH	33747 39317	27 55	12 23	6 4	7	1 -	7	1	-	2	-	1.1	ĩ	-	1	2	-
Bow WwHL† Poplar WH	85667 43529	62 52	36 26	8 7	8 7	3	1.1	2	=	2 5	-	ī	-	1 -	14	2	10 9
SOUTH DISTRICTS.  Christchurch Southwark W St. Saviour Southwark H Kent-road Borough-road U	17069 19101 19652 16668 19190 22675 44463 15082	5 15 12 16 20 25 84 11	8 8 13 13 6 13 32 5	1 4 - 4 3 4 9	- 35 - 39 2		11141111	1111111		11171111		1111111	nignini.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	7663 11393 16696 16505 25154 24502	2 18 15 9 44 9	14 5 5 7 22 8	- 2 - 6 4	5 2 4 4 -	- - 1 5 1	111111	11111	1111111	- 3 -	1 -	11111	11111	1	3	38 A	10 8 3 + +
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	10 17 20 33 32 23 27 10	6 11 6 24 10 22 29 5	2 4 1 4 8 6 3 1	- 3 1 8 2 7 3 1	1 19 -	1	111-		11111111	1	1 1 1 1 1 1	111111	111111	1 1 1 1 1 1	1 1 8 -	11.18.1.19.1
Clapham HL	20894 19600 13346 6481 10082	18 40 13 9 9	9 25 8 3	2 8 2 - 1	4 4 2 - 1	1		1 -			11111	-	11111	11	11111	10	14811
Dulwich Camberwell WL†L† Peckham W St. George Camberwell	1723 21297 28135 20333	1 21 28 22	1 20 17 16	2 8 3	10 3 3		1111	- - 1	1	- - 1		1 -	1111	1	1114	7 <b>1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	43 8 13 13	18 3 9 22	6 - 1 2	6 2 3 6		-	1111	1 -	ī	- 1 -	2	11,11		1111	S TEL	i i
Eltham	3009 11003 7372 10595	10 8 11	- 4 4 6	1 2	1 1 2	ī ī	1111	1111		ī -	1 - 1 - 1		1111	1	1111	1911	1111
Charlton H -	9276 22919 18776 } 24502{	6 19 13 8 7	4 4 6 4 6	1 1 2	1	1111111		- 2 - 1 1	11111	1 -			1 -	11111	11.1.1		1

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.
The Strand - " " Tottenham-court sub-district.
London City - " " Islington East.
London City - " " Hackney sub-district.

Do. do. " " Hackney sub-district.

† Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 11th February, 1871. Under the Superintendence of the Astronomer Royal.

								1110	16010	logica	ce C	10
		.,	ouozo		: :	:	:	:	::	:	26	
RAIN.	Collected in a Gauge	-	is 5 in. above the ground.	Inches	0.00	0.27	0.01	00.0	0.00	Sum 0.72	53	A COLUMN TO A COLU
	Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	465	195	323	420	365 291	Sum 2547	24	
	neters.	arefoot	Mean of 24 Obs.	lbs.	0.0	0.1	:	:	::	:	123	-
	Anemon	Pressure on square foot	Least.	lbs.	0.0	0.0	0.0	0.0	0.0	:	22	
WIND.	ed from	Pressur	Great- est.	lbs.	30.0	1.1	1.6	6.5	30.0	:	21	i i
	As deduced from Anemometers. Oslar's.	Direction.	P.M.		SW. & SSW.	SSE. SSW.	WSW.&	NW.	WNW &NE 30.0 ENE. & ESE, 15.0	ble.	20	
	-	General Direction.	A.M.		SSW. & SW.	SE.	WSW.	WNW.	SW. & SSW. WNW &NE 30.0 NE. &ENE ENE. & ESE, 15.0	Variable.	19	
Degree	midity, complete Satura-	being repre-			89	-	92	74	92	82	18	and the state of t
38	Between mean tem- perature of	the day and mean tem- perature of	the same day on an average of 50 years.*	0	+ 6.1	1 2.0	+ 8.1	+ 8.3	- 1·1 -12·1	+ 2.9	17	
DIFFERENCE	Point re	ure.	Least.	0	1.1	0.0	0.0	4.8	3.5	0.3	16	
DIF	Between Dew Point Temperature and	Air Temperature	Great-	0	9.9	4.0	4.6	12.4	5.5	8.2	15	-
1	Betwe	Air I	daily value,	0	3.0	8.0	2.2	6.4	2.3	5.1	14	1
	ater of mes at	ich, by stering	Lowest	. 0	34.4	37.0	37.4	38.6	39.4	37.4	13	
	In the Water of the Thames at	Greenwich, by self-registering Thermometers	Highest, Lowest	0	38.6	42.6	43.4	45.4	42.6	42.8	12	
TERS.	Lowest, on the Grass, as	a self.	ing Minimum Thermo- meter.	0	40.0	31.1	36.8	30.3	31.2	32.3	11	
READINGS OF THERMOMETERS.	Highest in the sun, as shown by	Thermo.	bulb in vacuo, placed on the Grass.	c	71.5	53.0	57.9	2.19	74.7	9.89	10	
IGS OF 7	Dew Point.	Mean	daily value.		44.4	43.0	44.8	34.3	35.4	36.5	6	
READIN			in daily day, value.	0	47.4	10.5 43.8	47.0	8.9 42.2	37.7	9.5 41.6	00	
	Dry.	24		0	7.3	10.5	1.6		13.1	1	7	
	Ω ,		est. est.	0	44.7	39.0	42.0	38.4	31.5	37.5	9	
_				C	52.0	49.5	51.7	47.3	44.6	47.0	, ro	-
BARO-	Mean daily reading	rected and re-	fuced to 32 degr. Fahren-	in.	29.523 52.0 44.7	29.809 52.2 42.0	29.727 51.7 42.0	29.816 47.3 38.4	29.218 44.6 31.5 13.1 37.7 29.956 31.5 25.0 6.5 26.5	29.715 47.0 37.5	4	
Moon.		rnases	Moon.		Full	::	:	In	::	1:	60	
	1871	1	MONTH AND DAY.	FEBRUARY.	_	Monday. 6	Wednesday 8	THURSDAY. 9	FRIDAY 10 SATURDAY. 11	MIRANS	No. of Columns	The state of the s

Variable amounts of cloud were prevalent throughout. Rain fell thinly at times dirrupt the day, but heavily between 71, and 81, P.A. A fine day. Variable amounts of cloud prevalent. AND ATMOSPHERE Generally cloudy till night; then very fine. Rain fell frequently. Cloudy till night; then cloudless. Overcast throughout. SKY moving, charging to positive alout 3h P.M. In the evening the electricity was negative.

Positive, with virtuals tension, was shown during the morning, was shown during the morning rate 3h. 3h. strong positive prevaled, but changed at 8h. 30m. P.M. os trong negative, with sparks and galvanic currents. At 3h. 45m. p. M. the electricity was again positive, with sparks and galvanic currents. Nothing along at alight, shown Weak negative was shown in the weak negative was was negative, tension, weak tension, throughout. ELECTRICITY A little weak negation shown in the moraing.
Negative, with weak Weak negative throughout the day. was prevalent. Weak nega 9 00 6 FEBRUARY. DATE. VEDNESDAY THURSDAY MONDAY TUESDAY SUNDAY

Rain fell at times. A dull day. At Norwich a heavy fall of snow in the afternoon. Cloudy.

The amount of cloud was generally large till night: then cloudless. A fine tay. At Norwich the minimum reading on this day was as low as  $30^{\circ}$ .0, Negative, with variable tension,

SATURDAY

FRIDAY

thermonieter, and the ver thermometer, observed at these times are converted into mean dealy values by the application of corrections deduced by James Glaisher, F.R.S., from five years observations enting 18th, December 31.—See Fig.I. Trans., part 1, 18th. The mean daily weater of the and degree of humidity are deduced from those mean daily values of the dry and wer builb thermometers by Glaisher's Hygemetrical Tables, Fourth edition. The results wer builb thermometers of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9th. A.M., mon; 3th. P.M.; and 9th. P.M.; as well as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometer, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the thermometrical observators, of proparation, in the 9ty great outland 18th, becomes 3th in canding the 17th column if will be borned mind that + is read "higher," and — "lower," to proper the site of the form of the site of the former and "lower," and "higher," and "higher," and ""higher," and ""higher," beneather 3th. The height of the cistern of the barometer is considered to be 159 feet above the mean The readings of the barometer are considered to be coincident with those level of the sea. The readings of the barometer are considered to be coincident with those of the Royal Society's flint glass standard barometer. The observations are taken at 6h. A.M.; noon; 8h. P.M., and 8h. P.M. The means of the readings of the barometer, the dry Rain fell occasionally during Strong wind pre-

"The femperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpion". Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the super-The results of all the meteorological observations are to be understood as 2 feet below the surface. The readings of these instruments are registered under introducene of the resident inspector on board the ship, by permission of Henderson, R.B., C.B., Commissioner of Metropolitan Polito. applying to the civil day, or from midnight to midnight. than the average.

The reading of the barometer increased from 29 54 in. at the beginning of the week to 29 53 in. by noon on the 5th; decreased to 29 22 in. by 9h. P.M. on the same day; increased to 80 03in. by 9h. A.M. on the 7th; decreased to 28 iii by 9h. P.M. on the 8th; increased to 29 97 in. by 9h. P.M. on the 9th; decreased to 29 03 in. by 8h. P.M. on the 9th; increased to 29 98 in. by noon on the 11th; and was 29 94 in. at the end of the week.

sty's Stationery () Hire. Hant Waisetv For Har Mais

# WEEKLY RETURN

AND DEATHS IN LONDON BIRTHS AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER DARK,

WEEK ENDING SATURDAY, FEBRUARY 18. [Propletion No. 7. 1871. Vol. XXXII.]

> General Register Office, Somerset House, 20th February 1871.

During the week ending Saturday the 18th instant, 5447 births and 3978 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM; and the aggregate mortality of the week was in the ratio of

28 deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, stated in the order of their topographical arrangement, were as follow:—London 26 per 1000; Portsmouth 22, Norwich 19, Bristol 28, Wolverhampton 27, Birmingham 24, Leicester 24, Nottingham 25, Liverpool 43, Manchester 28, Salford 30, Bradford 28, Leeds 24, Sheffield 25, Hull 19, Sunderland 21, and Newcastle-upon-Tyne 26. The deaths from small-pox in the seventeen Towns, which had been 214, 291, and 303 in the three preceding weeks, further increased to 327 last week. It is satisfactory to find that the epidemic still practically does not extend beyond London and Liverpool; as of the 327 deaths last week, 218 occurred in London, 105 in Liverpool, and only four in the fifteen other towns, of which one each was returned in Portsmouth, Bristol, Manchester, and Sheffield. The annual death-rate from small-pox last week was equal to 3.5 per 1000 in London, while it was 10.5 in Liverpool. Of the fatal cases in London, 56 per cent. were returned as "unvaccinated," while the proportion in Liverpool was 50 per cent.

In Edinburgh the annual rate of mortality from all causes last week was 29 per

1000 persons living, in Glasgow 36 per 1000, and in Dublin 40.

It is now 31 weeks since the Weekly Returns from Berlin, and 22 weeks since those from Paris, were discontinued on account of the War. In Vienna the annual rate of mortality during the week ending 4th instant was 32 per 1000. In Brussels the annual rate of mortality during the week ending 11th instant was 41 per 1000; the 138 deaths included 34 from small-pox, a decline of 2 upon the number returned in each of the two preceding weeks. In the City of Bombay the deaths registered during the week ending 24th January were 311 (exclusive of still-born), and the mortality was at the annual rate of 20 per 1000. In the City of Madras 198 deaths were registered in the week ending 6th January, showing an annual death-rate equal to 24 per 1000 of the enumerated population (427,771) in 1863. In the City of New York the deaths registered in the week ending 28th January were 478, and the equivalent annual rate of mortality was 27 per 1000.

In London the births of 1249 boys and 1114 girls, in all 2363 children, were registered last week. The deaths registered in the same time were 1625. During the corresponding weeks of ten previous years the registered births averaged 2155, and the deaths 1444 per week; after making due allowance for increase of population, the average for the past week is estimated at 2371 births and 1588 deaths; the registered births, therefore, were 8 below, and the deaths 37 above, the estimated

average.

Zymotic diseases caused 433 deaths, including 218 from small-pox, 11 from measles, 48 from scarlet fever, 8 from diphtheria, 58 from whooping-cough, 35 from fever (of which 11 were certified as typhus, 15 as enteric or typhoid, and 9 as simple continued fever), and 14 from diarrhea; thus to these seven principal diseases of this class 392 deaths were referred last week, against 359 and 384 in the two preceding weeks. The largest increase was again shown in the deaths from small-pox and whooping-cough. The fatal cases of scarlatina have averaged but 48 in the past three weeks, while in the previous ten weeks the average had been 104 per week.

The fatal cases of small-pox in London, which in the eight weeks ending 11th instant had averaged 144, were 218 last week, showing a further increase of seven

[7.]

upon the previous week. Of these 218 deaths, 23 were recorded in the Smallpox Hospital at Hampstead, 10 in that at Homerton, 6 each in those in Shoreditch and St. Margaret's Westminster, 5 each in those at Stockwell and Islington, and 7 in the smaller temporary hospitals for this disease. After distributing, so far as is practicable, those deaths in hospital among the districts from which the patients were admitted, it appears that 41 deaths from small-pox last week belonged to the West group of Districts, 50 to the North, 20 to the Central, 65 to the East, and 42 to the South. The fatal cases showed a decline in the East and West Districts, while they had increased in each of the other groups, more especially in the North. Of the 41 deaths in the West Districts, 28 occurred in Westminster; in the East Districts 33 belonged to Shoreditch, 15 to Bethnal Green, and 11 to Whitechapel.

In the past seven weeks of the current quarter, of the 1184 deaths from smallpox in London, 837 occurred under 20 years of age, 268 between 20 and 40, 67 between 40 and 60, and only 12 at 60 years and upwards; the annual death-rate under 20 years was 4.4 per 1000 of the estimated population at those ages; between 20 and 40 it was 1.9; between 40 and 60 only 9 per 1000, and above

those ages the rate was only nominal.

In the 31 years 1840-70, the deaths from small-pox in London were 25,071, giving a weekly average of 16. During this period the disease may be said to have been epidemic nine times, and in nearly all these instances it appeared in the latter part of the year, and lasted from one to two years. The nine epidemics occurred in 1840-1, 1844-5, 1847-8, 1851-2, 1854-5, 1859-60, 1862-3-4, 1866-7, and 1870-1. The highest numbers returned in any years were 1,804 in 1844, and 2,012 in 1863. The most severe visitation, although of comparatively short duration, was that of 1840-1, when the highest weekly number in the 31 years occurred, namely, 102 deaths in the last week of 1840. The three years of lowest mortality from small-pox were 1853, 1857, and 1861 when the deaths were only 217, 154, and 215 in each year respectively. It will thus be seen that the present epidemic is more severe than any during the above 31 years, the deaths having averaged 152 in the past nine weeks, while in an equal number of weeks during the previous most severe visitation, 1840-1, the weekly average was only 71.

Two fatal accidents caused by horses or vehicles in the streets were returned

last week.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.92 in.; the highest was 30.09 in. on Saturday at noon, and the lowest 29 49 in. on Sunday evening, 12th instant. The mean temperature of the air was 42° 7, or 4° 5 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 54°·7 on Saturday; the lowest night temperature was 26°·5 on Sunday; the entire range of temperature in the week was, therefore, 28°·2. The highest temperature in the sun was 91°·8 on Friday. The mean temperature was only 35°·3 on Sunday, 12th instant, and 3° 1 below the average, while it rose steadily on each of the succeeding days of the week, and was 48°.3 on Saturday, showing an excess of no less than 10°.0 upon the average. The difference between the mean dewpoint temperature and air temperature averaged 3° 8. The mean temperature of the water in the Thames derived from daily observations taken at the "Scorpion" Police Ship was 40° 5 last week. The mean degree of humidity of the air was 87, complete saturation being represented by 100. The general direction of the wind was S.S.W. and S.W., and the horizontal movement of the air amounted to 11 miles per hour. Rain fell on Monday and Tuesday, but only to the amount of 0.02 in.

The mean temperature of the week in the other large English towns furnishing returns ranged from 45° · 7 in Liverpool, to 39° · 2 in Norwich; the lowest recorded night temperature was 20°0 in Norwich, and the highest day temperature in the shade was 55° 5 in Salford. Rain fell in each of the towns furnishing returns, except Newcastle-upon-Tyne; the amount ranging from '04 of an inch

in Wolverhampton to '63 of an inch in Manchester and in Leeds.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 5°.95; the highest day temperature in the shade was 12°.61; the lowest night temperature was  $-3^{\circ} \cdot 06$ ; the highest temperature in the sun was  $33^{\circ} \cdot 22$ . The mean temperature of the week on an average of 50 years was 3° · 44, or 2° · 51 below the temperature of last week. The wind blew at the rate of 17 kilometres an hour, and the rain-fall was '05 centimetres.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the SEVENTH Week of Ten previous Years.

Total Births Males Females .	1861 1792 889 903	1862 1966 1018 948	1863 2108 1092 1016	1864 2122 1086 1036	1865 2034 1044 990	1866 2093 1069 1024	1867 2430 1244 1186	1868 	1869 2401 1209 1192	1870 2256 1156 1100	Average of 10 Weeks.  2155·4  1104·5 1050·9	2363 1249 1114
Total Deaths Males Females	1328	1345	1346	1586	1567	1365	1389	1307	1491	1716	1444·0	1625
	643	672	677	821	774	698	706	678	788	906	736·3	825
	685	673	669	765	793	667	683	629	703	810	707·7	800

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—Comparative Table of Results in the Last Thirteen Weeks.

Nov. Dec. 26. 3. 10. 17. 24. 31. 7. 14. 21. 28. 4.  Foral Deaths 1652 1482 1586 1737 1377 1760 1828 1896 1846 1632 1683  Deaths under 5 years of age - 712 629 647 688 540 672 651 660 650 601 603  Deaths 20-40 212 198 219 253 205 250 242 241 271 224 284  Deaths 40-60 214 222 239 278 215 294 330 355 294 282 285  Deaths 60-80 293 255 280 301 218 322 391 412 377 318 306  Deaths at 80 years & upwards 60 52 42 63 56 72 72 93 98 65 66  Deaths from Small-pox - 41 60 61 44 82 110 79 135 188 157 196  ", Measles - 24 33 27 27 25 29 34 27 17 12 12  ", Scarlet Fever - 122 180 116 135 104 110 112 77 68 66 49  ", Whooping-cough 26 25 32 44 33 49 36 38 51 47 47 43  ", Typhys fever - 6 12 12 9 16 10 10 10 5 10 11	1 1	
Deaths under 5 years of age - 712 629 647 688 540 672 651 660 650 601 603 122 123 126 159 154 143 150 142 125 156 142 129 124 124 124 124 124 124 124 124 124 124	Feb. 11.	Feb. 18.
Deaths 5—20 131 126 159 154 143 150 142 185 156 142 189  Deaths 20—40 212 198 219 253 205 250 242 241 271 224 284  Deaths 40—60 244 222 239 278 215 294 330 355 294 282 285  Deaths 60—80 293 255 280 301 218 8½2 391 412 377 318 306  Deaths at 80 years & upwards 60 52 42 63 56 72 72 93 98 65 66  Deaths from Small-pox - 41 60 61 44 82 110 79 135 188 157 196  ", Measles - 24 33 27 27 25 29 34 27 17 12 12  ", Scarlet Fever - 122 130 116 135 104 110 112 77 68 66 49  ", Diphtheria - 5 11 7 9 6 8 8 4 9 6 8 6 89  ", Whooping-cough 26 25 32 44 33 49 36 38 51 47 43	1749	1625
Deaths 40—60 244 222 239 278 215 294 330 355 294 282 285 286 361 218 382 391 412 377 318 366 294 285 286 361 218 382 391 412 377 318 366 296 296 296 296 296 296 296 296 296 2		642 142
Deaths from Small-pox - 41 60 61 44 82 110 79 135 188 157 196  ", ", Measles - 24 33 27 27 25 29 34 27 17 12 12  ", ", Scarlet Fever - 122 130 116 135 104 110 112 77 68 66 49  ", ", Diphtheria - 5 11 7 9 6 8 4 9 6 8 6  ", ", Whooping-cough 26 25 32 44 33 49 36 38 51 47 43	281 333	247 265 280 49
" Scarlet Fever - 122 130 116 135 104 110 112 77 68 66 49 " Diphtheria - 5 11 7 9 6 8 4 9 6 8 6 " Whooping-cough 26 25 32 44 33 49 36 38 51 47 43	-	218
)) ))	46 10	11 48 8 58
" Enteric (or Ty- ) 28 21 26 23 30 21 18 17 12 15 15 phoid) fever -	13	11
" Simple Contafever 10 15 16 15 12 13 9 11 17 5 13 13 12 9 6 19 17 17 10 14 14 15 17 17 10 14 17 17 10 14 17 17 10 14 17 17 10 14 17 17 17 10 14 17 17 17 10 14 17 17 17 10 14 17 17 17 17 17 10 14 17 17 17 17 17 17 17 17 17 17 17 17 17	16 14 —	14
""  ""  ""  ""  ""  ""  ""  ""  ""  ""	175 223 83 75	166 194 66 89
Mean Temperature of the Air 46.8 38.9 32.5 42.8 33.0 25.7 31.1 33.0 37.1 32.4 34.5	0	42.7
Mean Temperature of the Water of the Thames - 34.0	40.1	40.5
Humidity of the Air 87 87 89 92 78 85 84 87 93 84 91	.82	87
Rain-fall in inches 0.95 0.01 0.84 1.70 0.17 0.42 0.07 0.08 1.32 0.54 0.19	0.72	0.03

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneeous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.; —W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., Ermingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doneaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 18th day of February 1871, in the following large Towns.

	1	8th day of	reorus	ry 1871, 1	n the lone	WILLS IN	180 10				
CITIES	Area	Estimated Population	Persons	BIRTHS registered	DEATHS registered	TEMPERA (FA	TURE OF	(T.)	TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FAI
AND BOROUGHS.	in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 18th Feb. 1871.	during the Week ending 18th Feb. 1871.	Highest during the Week.	Lowest during the .Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Cm
Total of 20 Towns in the UNITED	213,281	7,336,961	34.4	5447	3978	56.0	20.0	42.9	6.06	0.56	0
KINGDOM)	77,997	3,258,469	41.8	2363	1625	54.7	26.5	42.7	5*95	0.05	0
London	1 1	125,464	13.5	75	53	53.9	29.0	43.7	6.20	0.08	0
PORTSMOUTH	9,513 7,472	81,787	10.9	50	29	53.0	20.0	39.2	4.00	0.45	1
BRISTOL	4,688	173,364	37.0	142	93		. —		- 1		
WOLVERHAMPTON -	3,387	74,438	22.0	63	39	53.5	25*9	43.2	6.22	0.04	0
***	1.		40.0	0.47	172	53.6	26.3	43.5	6.39	0.12	0
BIRMINGHAM	7,831	378,574	48.3	245	47	53.2	26.5	42.6	5.89	0.14	1
LEICESTER	3,200	101,367	31.7	95	43	52.4	25.8	41.1	5.06	0.11	(
NOTTINGHAM	1,996	90,480	45.3	61	438	53.4	34*9	45.7	7.61	0.02	(
LIVERPOOL	5,108	526,225	103.0	398	206	54.5	28.0	41.9	5.20	0.63	1
MANCHESTER	4,486	379,140	84.2	304						0.16	L
SALFORD	5,172	123,851	23.9	. 96	71	55.2	26.2	41.9	5.20		
BRADFORD	6,590	148,030	22.5	120	79	51°4	26.2	42.0	5.26	0.46	
LEEDS	21,572	266,108	12.3	253	124	52.0	27.0	41.2	5.58	0.42	
SHEFFIELD	22,830	255,247	11.2	174	124	53.7	25.0	41.9	5.20	0 42	
HULL	3,562	135,195	38.0	88	- 50	52.0	22.0	39.9	4*39	-0.19	'
Comment Larry	9.900	103,037	31.2	106	42			-	-	-	
SUNDERLAND	3,306 5,336	136,293	25.2	125	68	53.0	25.0	43.0	6.11	0.00	1
NEWCASTLE-ON-TYNE	5,336 4,427	179,944	40.6	120	101	53.0	33.0	46.7	8.16	0.50	1
GLASGOW	5,063	477,627	94.3	374	330	54.7	30.5	44.0	6.67	1.01	1 :
DUBLIÑ	9,745	322,321	83.1	195	244	56'0	36°8	48'3	9°05	0.04	1
DODAK											
PARIS	19,279	1,889,842	-98	- <del></del>	-	-	-		F4074		
VIENNA	9,212	622,087	68	-	379†	-	257	23.04	-5.01+	_	
BERLIN	15,451	80.0,000	52	- Total	-	277	1 100	-	1.377	1	
				1		1	1			MATERIAL PROPERTY.	

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probe available before the middle of the year, and will then be substituted for these estimates.

† The facts for Vienna relate to the week ending 4th February.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Vending Saturday the 18th day of February 1871.

	ANNUAL				Th	e DEA	THS regi	istered	n the	Week in	clude		
BOROUGHS, &c.  (Municipal Boundaries for all except London.)	RATE of MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pex.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhes.	Violence.	Inquest Cases.
Total of 17 Towns -	27	3303	757	679	327	37	101	20	111	94	37	111	225
LONDON -	26	1625	348	329	218	11	48	8	58	35	14	68	140
PORTSMOUTH -	22	- 53	12	18	1	-	1	-	-	2	₹ :	1	8
NORWICH	19	29	5	8	- 1	-	2	2	2	-	-	7	1
BRISTOL	28	93	26	27	1	1	2	-		3	1	2	5
WOLVERHAMPTON -	27	39	11	5	-	-	-	***	1	4	1	3	4
BIRMINGHAM ?	1 24	172	44	37	-	8	2	6	7	6.	5	4	16
LEICESTER	0.4	47	12	12	-	1 7	4 -	- 100	-	-	. 2		1
NOTTINGHAM -	1 04	43	5	15	-	1	7		-	2	1-	3	6
LIVERPOOL	43	438	108	.77	105	15	11	2	16	16	5	10	14
MANCHESTER -	28	206	50	31	1	8	4	1	3	9	2	10	15
SALFORD	30	71	15	17	7		1		-	2	1 =	1	2
BRADFORD	28	79	23	18	-	-	4		1	3	2	-	5
Leeds	24	124	27	33	-	4	8	1.	8	4 .	1	1	3
SHEFFIELD	0.4	124	27	24	1	-	12	-	7	2	5	2	5
HULL -	10	50	13	13	-	-	3		2		-	4	4
SUNDERLAND -	21	42	14	9	-		8	-	2	1	-		1 -
NEWCASTLE-ON-TYNE -	1 1 1	68	17	11	-	-	1		. 4	5	1	2	1
DUBLIN	40	244	42	58	-	2	6		9	10	3	5	8

### TABLE 5 .- DEATHS in LONDON Registered in the SEVENTH Week of the Year 1871.

TABLE 31	DEAL	15 111	110	ND(	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ing.	1310	104	in the SEVENTH Week	OI the	LCai		,, 1.			
٠	rk x 31-70.	Satu	In t	he V	Veek brua	endi ry 18	ng ,187	l.	**	f the Veek 1861-70.	Sat	In t	he V	Veek ebrus	endi ry 1	ng 8, 1871
	Averages of the Seventh Week the 10 years 1861-70		Deat	ths o	f Per	rsons	of			s of the Wee		Dea	ths o	f Per	sons	of
CAUSES OF DEATH.	erage venth	ALL	Ung		r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages of Seventh We the 10 years 1	ALL	Un		r 40.	r 60.	er 80.
	Av Se in the	AGES. Mean	20	-	under	under	under	ars a		Av Se in the	AGES. Mean		·	under	under	nuq
Mean Temperature -	38.5	Tem. 42.7	0-5.	5-20.	20 and	40 and	60 and 1	80 Years upwards	Mean Temperature -	- 38°5	Tem.	0-5.	5-20.	20 and	40 and	60 and
ALL CAUSES	1444.0	1625	642		247	265			9. Stricture of Intestines -	*3		_	1	-		
SPECIFIED CAUSES	1427.0	1619	i i	142	246		279		10. Fistula	5.6	6	2	1	ī	Ē	2
I. ZYMOTIC DISEASES. ORDER 1.	-								13. Hepatitis	- 3'8 4'4 15'8	6 4 14	2	- 1	2 2	2 6	8 - 5
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	17.0 19.7 49.0	218 11 48	91 9 30	54 2 13	47 - 5	23	3 -	E	16. Spleen Disease, &c ORDER 5.	-8	-		N.E.	-		-
4. Diphtheria	11.1	8 1	5 - 15	3	-	1			1. Nephritis	2°1 °3 9°2	- <del>4</del> - <del>9</del>	2	1 -	- 4	- 2	1 - 2
6. Croup	18.9	16 58 11	56 2 2	1 2 2	- 1 5 8	1	1		4. Diabetes	2.1	1	1	-	2	2	1
- Simple continued Fever ) 9. Erysipelas	7:3	15 9 9	5	3	_	2 2	1	ī	7. Kidney Disease, &c ORDER 6.	8.1	8	ī		2	3	2
10. Puerperal Fever (Metria) 11. Carbuncle 12. Influenza -	3·8 1·0 1·1	2 -			2 -		-	-	1. Ovarian Dropsy 2. Uterus Disease, &c	3.1	2	-	-	Ē	2	-
13. Dysentery	1·5 14·7 •4	1 14 -	11		ĩ	1 -	2 -		ORDER 7.  1. Synovitis (Arthritis) - 2. Joint Disease, &c	*2 4*6	1 6	-	1 2	- 8	-	-
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	*9 7.7	11	, -	4	- 2	2	3		ORDER 8. 1. Phlegmon	2:4	3			1	2	
ORDER 2.	8.3	5	1 5				-		2. Ulcer 3. Skin Disease, &c	1.8	2	ī	-	-	-	ī
2. Stricture of Urethra 3. Hydrophobia 4. Glanders	8 3 1 3 -	1 -	1	-	-	-	-	-	IV. DEVELOPMENTAL DISEASES.							
ORDER 3. 1. Privation	1.2	1		-	-	1	-	-	ORDER 1.  1. Premature Birth	17.7	15	15	-	-	-	-
2. Want of Breast-milk - 3. Purpura and Scurvy - 4. Alco- a Del. Tremens - holism b Intemperance -	6.7 2.0 1.9	12 8 2	12 1	-	2	1	-	- 1	3. Spina Bifida 4. Other Malformations -	1.3	1 1	2 1 1 25	11:11	1 1 1	-	-
ORDER 4.	3.1	3	2		2	<u></u>	-		ORDER 2.  1. Paramenia	19.6	25	40	-		_	
2. Worms, &c II. CONSTITUTIONAL DIS.		-	-				-		2. Childbirth (see Puer-) peral Fever)	4'8	7	_	_	6	1	
ORDER 1. 1. Gout	1.4	3	-	-	-	-	3.4	-1	ORDER 3. 1. Old Age	58.9	52	-	-	-	-	30
3. Cancer 4. Cancrum Oris (Noma) -	11·1 27·2 2·4 2·7	8 35 -	1	1 -	6	ıī	17	1	ORDER 4.  1. Atrophy and Debility -	60.6	58	50	-			8
5. Mortification ORDER 2. 1. Scrofula	10:8	11	- 6		2	- 1	3	_	V. VIOLENT DEATHS, &c. ORDER 1.							
2. Tabes Mesenterica	17°2 167°3 33°4	11 13 166 28	6 12 13 23	1 12 4	75 1	56	10	-	(ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	14.8	22	4	2	4.	6	6
III. LOCAL DISEASES.									2. Wounds 3. Burns and Scalds 4. Poison	9.2	1 11 1	6	2	-	1	1
ORDER 1. 1. Cephalitis 2. Apoplexy 3. Paralysis	15.9	17 44 25	10 6 1	1 3	2	11	8 19	2 6	5. Drowning	3:7 9:1 2:0	6. 15 5	13 2	1	4	1 2 2	-
4. Insanity	28.1	3	-	=	1 -	7 2 -	10		ORDER 3.			Т				
6. Epilepsy 7. Convulsions 8. Brain Disease, &c	6*9 55.0 20.8	5 55 12	1 53 3	1.	1 2	3 -4	1 2		(Homicide.)  1. Murder and Manslaughter	1.9	2	2	_	_	-	-
ORDER 2.  1. Pericarditis 2. Aneurism	2.3	2 2		1	ī	1	-		ORDER 4. (SUICIDE.)	•1						
3. Heart Disease, &c ORDER 3. 1. Laryngitis	9.4	89	1	10	12	33	31	2	1. Wounds {Gunshot - Cut, Stab	1:2	1 2			1 2	-	-
2. Bronchitis	194·6 2·6 78·0	194 3 66	67	1 1 2	11	37	69	9	4. Hanging 5. Otherwise	1.9 .6		1 1 1	-	-	-	-
5. Asthma 6. Lung Disease, &c	15.7 14.3	14 18	42 - 5	N 1 . 1	6 2 8	9 5 6	7 7 4	E	OBDER 5. (EXECUTION.)							
ORDER 4.  1. Gastritis	1.3 4.0	6 5	1 2	2	1	-	1 3	1	1. Hanging		-		-		-	
8. Peritonitis	5.0 3.1 2.6	6 1 5	-	1 - 1	2 - 2	3 1 1	3 1 - 1		Violent Deaths (not classed) Sudden Deaths (Cause un-)	3.7	2 2	1		-	-	2
6. Hernia	3·7 3·9 1·1	4 4 1	-	-	2	2 -	1 2 2		ascertained)	13.3	4	3	-	-	-	1
							1		1						1	

CABLE 6. LONDON.—POPULATION, BIRTHS, DEATHS from ALL CAUSES, and from SMALL-POX, MEASLES, SCARLET during the Week ending

			1									dui	ring 1	the \	w ee	k end	ing
		during	during				The :	DEATI	as reg	gistere	d in t	he We	ek in	lude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox,	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	2,803,989	2363	1625	348	329	218	11	48	8	58	11	15	.9	14	68	140	300
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS SOUTH DISTRICTS	458,125 618,210 883,321 571,158 773,175	325 569 226 541 702	252 379 188 375 431	55 79 31 80 103	44 84 44 72 85	36 73 14 53 42	2 2 - 2 5	7 14 .4 7 16	3 3 2	12 5 5 17 19	1 4 2 4	3 2 4 4	2 2 1 - 4	2 3 3 3 3	11 17 8 16 16	18 88 11 42 31	41 95 40 67 57
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Hensington Town WL Brompton H - St. Peter Hammersmith H - St. Paul Hammersmith H - Fulham WLLLL Chelsea South HH - Chelsea North-west HWw - Chelsea North-west L - Hanover Square - May Fair W - Belgrave HH - St. John Westminster HHH - St. James's Square Golden Square W - Golden Square W - Berwick-street - St. Anne Soh OHH - St. James's Square Square W - St. Anne Soh OHH - St. James's Square Square W - St. Anne Soh OHH - St. James's Square Square W - St. Anne Soh OHH - St. James's Square Square W - St. Anne Soh OHH - St. James Soh OHH -	39015 36769 51910 18198 5415 19104 1559 21654 19899 21886 55113 37483 30730 10753 13966 10607 17425	42 18 69 16 3 24 12 20 15 12 9 4 23 27 13 1 6 6	34 11 35 8 1 14 6 8 12 3 26 39 28 39 28	94492-5-2313-66211	6 1 6 3 - 2 1 3 4 1 7 3 - 1 1 1	1 1 1 3 12 16 - 1 1	111111111111111111111111111111111111111	1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	interior nervira	6		2	2	111111111111111111111111111111111111111	3 - 1 - 1 4 1 - 1 - 1 - 1 - 1 - 1 - 1	1 - 1 - 1 3 1 1 1	4 1 1 2 1 8 1 18 - 8 1 18
NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square - Rectory Marylebone W H St. Mary Marylebone H Christehurch Marylebone - St. John Marylebone - Hampstead WHH - Resent's Park Pancras - Tottenham-court wH - Gray's Inn Lane H Somers Town - Camden Town W - Kentish Town W - Islington West* WHHH Islington East Www - Stoke Newington L - Stamford Hill - West Hackney W - Hackney WwH - South Hackney L - South Hackney L -	29952 15090 26692 22493 34913 32540 19106 84927 29871 27808 39099 23266 44317 75442 79899 6068 5483 24265 81481 15458	24 10 19 22 24 21 26 21 28 22 22 23 19 52 95 76 12 24 35 20	13 4 13 6 16 20 35 19 14 17 15 16 39 54 38 1 6 30 10	3 -4 1 1 4 4 5 6 4 2 7 10 8 4 4 4 4	6 3 4 2 4 7 1 3 5 1 3 6 10 7 13 1 1 4 2	1 22 1 1 1 1 29 10 5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	111111111111111111111111111111111111111	3 1	111	1		1 2 - 4 1 1 2 - 1 1 1 2	3 - 1 1 1 2 3 6 8 6 4 - 5 - 2 - 1	3 6 7 1 26 4 5 7 6 19 5
CENTRAL DISTRICTS.  St. Gleer South WH	17892 19483 17201 11618 11071 10348 11207 19903 12947 12012 19152 17250 113079 16200 11504 17860 14778 12931 12947 12950 11750 15957 17957 17957 18957	17 19 12 11 5 6 7 10 8 8 8 13 15 6 6 10 12 19 5 8 8 10 12 12 11 12 13 14 15 15 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	9 8 7 7 6 5 7 8 17 4 15 6 6 8 4 7 10 2 5 10 11 11 11 11 11 11 11 11 11 11 11 11	41123111222211221	-4 -1 -1 -2 -8 -52 -1 14 41 11 13 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2	1 2 2 4 1 1 1 - 1 1 - 1		111111111111111111111111111111111111111		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 12 6 - 1 1 18

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely, W—Workhouse; H—Hospital; L—Lunatic Asylum; w—A Workhouse not belonging to the district in which it is situated.

The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

Saturday, 18th February 1871.								_									
		during	during				The I	EATH	s regi	stered	in th	e Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under I Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Searlet Fever.	Diphtheria,	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
EAST DISTRICTS.  Holywell Shoreditch — — — — — — — — — — — — — — — — — — —	17313 19188 26516 25777 23260 17310	12 19 30 27 23 15	5 17 13 18 21 12	3 - 322	2 2 7 3 2 2	- 8 3 7 8 3	111,111	- - - - 1	1 - 1 - 1 - 1	1 -	1 1 1	- 1	11111	11111	1 -	23-1	185151
Hackney-road Green Bethnal Green WHLt Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	28 36 12 20	17 27 10 11	5 7 4 4	5 5 - 2	3 2 1	ī	1 1 -		2 - 2 -	1111		1111	1 -	1 4 -	5 -	8
Artillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	4 17 10 7 4 8 5	2 5 21 4 20 5 3	2 4 1 1	- 2 5 3 4 - 1	8 - 1 -	1111111	1	1111111	1111111	1 -	111111	111111	1 1	1111111	4 4 1	10 17 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	18 10 5	8 7 11	1 3 2	1 5	ī.	= 1		171	2 -				1 1 1	ī	1	7
Shadwell W	12537 16874 27161	7 10 29	12 15	- 3 4	3 3	- 1,	-		2 -	1 1 2	-	-			1	1 4	1 1 1
Mile End Old Town West Mile End Old Town East WwH -	33747 39317	37 53	30 21	9	3 4	1	ī	2	-	1	= -	ī		-	1	3 2	3
Bow WwHLt	35667 43529	68 82	28 28	6 10	6 2	2	-	-	1 -	2 2	-	1	7	-	5	8	2 2
Christehurch Southwark W - St. Saviour Southwark H - Kent-road - Borough-road WH London road L - Trinity Newington W St. Peter Walworth W St. Mary Newington H	17069 19101 19652 16668 19190 22675 44463 15082	12 15 9 12 16 17 40 6	11 7 6 3 3 12 21 15	3 3 2 1 4 5 3	5 1 2 1 - 1 8 1	1 3 - 3	1 - 1 -	1		1 1 3 - 1	1	1111111	2	1111111	1111111	1111111	8 1 1 1 1 1 6
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W St. James Bermondsey Rotherhithe W	7663 11393 16696 16505 25154 24502	8 9 11 51 20	8 12 13 5 25 17	- 4 - 9 3	1 5 2 3 4	5 - 4 2	11111	1	111111	1 1 1	1	11111	111111	111111	1 1 1 1 1	1 1 1 1 3	7 6 - 1 -
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W Kennington 1st W	15269 18640 19839 29542 30785 20440 20067 7462	5 21 20 23 39 18 23 10	6 7 13 28 17 13 14 8	1 4 10 8 - 3	1 4 4 2 4 2 -	31 1 5 1	2	1 3 1		1 1 1 3	1	1111111	1	11111111	1 - 1	1 1 1	3 11 - 5 -
Clapham HL	20894 19600 13346 6481 10082	12 45 19 3 6	9 21 14 5 6	3 4 2 1 2	3 5 3	2 4 1 -	11111	2 2 -	11111	1		- - 1	11111	- - - 1	-	1 1 -	31
Dulwich	1723 21297 28135 20333	2 22 80 31	14 12 12	- 1 2 2	- 8 5 3	- 1 1	ī -	1	1	1111	-	ĩ.		- - 1		1	2 -
St. Paul Deptford	37834 8139 21696 18306	41 8 15 19	12 5 8 6	2 2 1 1	2 1 8 4	1111	1111	1	1,111	1111			-	1	1 1 2 -	3 2 4 -	
Eltham Lee Lewisham Village W Sydenham	3009 11003 7372 10595	2 5 7 12	2 2 6 4	2 2 1	1 8 -		11711	1 1 1	-	1 1 1 1	1111	1.1.1.1			2	2 -	1
Charlton H Woolwich Dockyard	9276 22919 18776 } 24502 {	9 11 11 8	3 5 11 2 8	3 3	2 -	3	11111	ī	1111	1 1 2	11111		-	11111	2 -	3 2 -	4111

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - " Tottenham-court sub-district.
London City - " " Tottenham-court sub-district.
Do. do. - " " Hackney sub-district.

Stepney - " Bow sub-district.

Bow sub-district.

Stepney - " Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.- METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week enung Sauruay, 10011 LEGIONAL, 10111. Under the Superintendence of the Astronomer Ronal.

_												M	lete	or	olog	ice	al (	Obs
-					oue			:-	:	:	:	:	:	:	:	1	56	
	RAIN.	Collected	in a Gauge	whose	surface is 5 in.	above the ground.	Thehes	0.01	0.01	00.00	0.00	3.5	0.00	00.0	Sum 0.02		25	
			Robinson's.	Amount of	Movement	each day.	Miles.	351	166	242	190	021	314	429	Sum 1812		24	
		ters.		Tre foot.	Mean	24 Obs.	lbs.	: .	:	0.0	0.0	0.0	0.5	0.2	;	1	200	
L		emome		on sdns		Least.	lbs.	0.1	0.0	0.0	0.0	0	0.0	0.0	:		01	
l,	WIND.	from Ar		Pressure on square foot.	Great-	est.	Ibs	01 00	0.3	8.0		7.0	1.9	7.2	:	1	20	
		As deduced from Anemometers.	Osler's.	irection.		P.M.		SSW.	NNW. &	SW. & SSW.	SSW, S., & SW.	SW & SSW.	SW.	S.W.	&SW.	-	50	NOTES.
				General Direction.		A.M.		'n	NNW.	SSW.	SSW.	. W.	SSW. & SW	. W	SSW.		19	
-	Degree	midity,	complete Satura-	tion		by 100.		06	84	68	94	<del>2</del>	83	883	18		18	
	2	Between	mean tem-	the day and mean tem-	the same day	of 50 years.*	0	3.1	+ 3.2	+ 3.5	+ 4.8	+ 5.4	1.1 +	+10.0	+ 4.5		17	
ı	DIFFERENCE	Point	e e	ure.	1000		0	1:1	0.0	2.0	0.0	2.7	3.1	5.0	1.4	-	16	
ı.	DIFF	Between Dew Point	femperature and	Air Temperature	Great-	est.	. 0	4.1	1.6	5.2	3.8	6.3	9.8	9.4	8.9		15	
		Betwee	J. Len	Air T	Mean	value.	0	5.6	4.6	3.1	1.6	6.4	5.0	5.1	<i>co</i>		14	
- 1	6		ater of mes at	ich, by	neters.	Lowest,	. 0	38.6	39.1	38.9	39.0	39.4	8.68	40.1	39.3	-	13	3.
,			in the Water of the Thames at	Greenwich, by self-registering	1 normometers.	Highest, Lowest,	0	41.6	40.6	42.2	9.04	41.6	41.8	42.2	41.6		12	PHERF
	CERS.	Lowest	Grass, as	a self-	ing	_	c	25.0	28.7	33.7	32.0	36.1	35.7	35.3	32.4		11	TMOS
	READINGS OF THERMOMETERS.	Highest in	shown by	tering Thermo-	meter with blackened	placed on the Grass.	C	6.09	2.17	72.7	56.3	59.4	91.8	84.8	2.04		10	SKY AND ATMOSPHERE
ı	S OF T	Dew 1	Point.	Mean	daily	value.	Ċ	32.1	36.9	38.6	41.3	38.6	40.9	43.2	38.9		0,	S
H	EADING			Mean	daily	value.	C	35.3		41.7	42.9	43.5	45.9	48.3	42.1		00	
ŀ	A			Range Mean	in	day. value.	c	13.8	14.9	13.2	9.4 42.6	8.3 43.5	10.3	12.3	11.7		1-	
ı			Ury.		Low-	est.	0	26.5	34.8	36.0	38.1	89.0	41.2	42.4	37.0		9	
۱					High-	est.		40.8	49.4	49.2	47.5	48.2	51.5	54.7	48.7		10	NITY.
	BARO-	Mean	reading	rected	duced to High- Low-	Fahren heit).	in.	29.212	Perigee 29.819 49.7 34.8 14.9 41.5	29.982 49.2 36.0 13.2 41.7	29.989 47.5 38.1	Greatest 30.013 48.2 39.9	30.020 51.5 41.2 10.3	30.069 54.7 42.4 12.3 48.3	29.923 48.7 87.0 11.7 42.7	1	4	ELECTRICITY.
	MOON. METER.			Phases	n.			Last 29.572 40.8 26.5 13.8 35.3	Perigee			Greatest			:	-	02	EL
			1871.	Meaning and Day	MONTH AND DAY.		FEBRUARY.	SUNDAY . 12	Monday . 13	Turenav 14	15 YA	-	FRIDAY 17	SATURDAY . 18	MEANS	- International Control of the Contr	No. of Columns.	DATE.

	The height of the cistern of the barometer is considered to be 159 feet above the mea
noon and evening. Manchester and	of the Royal Society's flint glass standard barometer. The observations are taken at 9h. A.M. moon; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the other channels and the west thermometer, observed at these times, are converted into me
ring the morning fine.	daily values by the application of corrections deduced by James Glaisher, F.R.S., from fix generic observations ending 1845, December 31—See $P^{Ioll}$ , $T_{FORM}$ , part 1, 1848. The mean dail dew point and degree of funding a deduced from those mean daily values of the dry an
ght. A shower of	wer bull themrometers by disasters Apycontertoal raboes, routed entition. The result for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M., as we
Thin rain fell	as the results deduced from the maximum and minimum internumeers, as deermined the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the thermometrical observed.
	tions taken at the Royal Cuservatory, Greenwich, in the 50 years ending 1863, December 3 ** ** ** ** ** ** ** ** ** ** ** ** *

Variable amounts of cloud were prevalent durand thin rain fell; cloudless after 3h. P.M. Very

A little weak positive at night.

13

MONDAY

Light clouds were generally prevalent till nig rain iell about 9b. 40m. A.M. Cloudless at night.

Generally cloudy till night; then during the morning.

shown

was

Positive electricity throughout the day.

Positive, with variable was generally shown.

14

TUESDAY

Generally overcast.

Was

Strong positive throughout.

16

THURSDAY .

Positive, with strong tension, was shown throughout.

FRIDAY

Positive, with variable tension, was prevalent throughout the day.

SATURDAY . 18

Rain fell during the aftern at night. Snow fell at

Generally overcast. Faint auroral light Bradford.

tension,

Positive, with variable was shown.

12

SUNDAY

FEBRUARY. DATE.

se sine de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania del com

The temperature of the water of the Thames is ascertained by the use of self-registering them ometers, suspended from the side of the "Scorpion". Police Ship, at the depth of about 2 feet below the surface. The realtings of these materiments are registered under the than the average. The results of all the meteorological observations are to be understood applying to the civil day, or from midnight to midnight. Light clouds were prevalent till night; then generally cloudless. A little thin rain fell occasionally. Generally fine

superintendence of the resident inspector on board the ship, by permission of Lieut-Col. Henderson, L.B., C.B., Commissioner of Metropolitan Policin, by permission of Lieut-Col. The reading of the baronneter decreased from 29 49 in. by 8h. ra. on the 12th; increased from 29 49 in. by 8h. ra. on the 12th; increased to 39 90 in. by 8h. ra. on the same day; increased to 39 00 in. by noon on the 14th; decreased to 39 06 in. by noon on the 14th; decreased to 30 06 in. by noon on the 15th; and was

Generally cloudy till night. Solar halo observed between 3h. and 4h. F.M. Cloudless and fine after 7h. F.M.

#### WEEKLY RETURN

### BIRTHS AND DEATHS

AND IN NINETEEN OTHER LARGE OF THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No.8. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, FEBRUARY 25. [Price 1 d.d.

General Register Office, Somerset House, 27th February 1871.

During the week ending Saturday the 25th instant, 5541 births and 3724 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM; the aggregate mortality of the week was in the ratio of 26 deaths annually to every 1000 of the present estimated population, against 30 and 28 in the two previous weeks.

The annual rates of mortality last week in the SEVENTEEN ENGLISH CITIES and Towns, stated in the order of their topographical arrangement, were as follow:—London 26 per 1000; Portsmouth 15, Norwich 19, Bristol 25, Wolverhampton 15, Birmingham 20, Leicester 22, Nottingham 16, Liverpool 45, Manchester 21, Salford 24, Bradford 24, Leeds 24, Sheffield 22, Hull 19, Sunderland 29, and Newcastle-upon-Tyne 25. The deaths from small-pox in the seventeen towns, which had been 291, 303, and 327 in the three preceding weeks, further increased to 358 last week; of these 227 occurred in London, 129 in Liverpool, and only two in the officer other towns of which one each way returned in Man and only two in the fifteen other towns, of which one each was returned in Manchester and Newcastle-upon-Tyne, both being "unvaccinated" cases. The annual death-rate from small-pox last week was equal to 3.6 per 1000 in London, while it was 12.9 in Liverpool.

In Edinburgh the annual rate of mortality from all causes last week was 24 per

1000 persons living, in Glasgow 33 per 1000, and in Dublin 30.

It is now 32 weeks since the Weekly Returns from Berlin, and 23 weeks since those from Paris, were discontinued on account of the war. In Brussels the 154 deaths registered in the week ending 18th instant gave an annual death-rate of 45 per 1000; 41 were fatal cases of small-pox, an increase of 7 upon those in the previous week. In the City of Bombay the deaths registered during the week ending 31st January were 369 (exclusive of still-born), and the mortality was at the annual rate of 24 per 1000. In the City of Madras 231 deaths were registered in the week ending 13th January, showing an annual death-rate equal to 28 per 1000 of the population. In the City of New York the deaths registered in the week ending 4th instant were 488, and the equivalent annual rate of mortality was 27 per 1000.

In London 2463 births, and 1633 deaths, were registered last week. After making due allowance for increase of population, the births exceeded by 81, while the deaths were 13 below, the average numbers in the corresponding week of the

ten previous years.

Zymotic diseases caused 428 deaths, including 227 from small-pox, 15 from measles, 47 from scarlet fever, 2 from diphtheria, 54 from whooping-cough, 34 from fever (of which 12 were certified as typhus, 15 as enteric or typhoid, and 7 as simple continued fever), and 14 from diarrhoea; thus to the seven principal diseases of this class 393 deaths were returned last week, against 384 and 392 in the two

preceding weeks.

The fatal cases of small-pox in London, which in the four previous weeks had been 157, 196, 211, and 218, further increased to 227 last week. In nine permanent and temporary hospitals for this disease, 44 deaths were recorded last week. After distributing, so far as is practicable, these deaths in hospital among the districts from which the patients were admitted, it appears that 28 deaths from small-pox last week belonged to the West group of Districts, 45 to the North, 20 to the Central, 75 to the East, and 59 to the South. The fatal cases showed a decline

[8.]

in the West and North Districts, while they had considerably increased in the Eastern and Southern groups. Of the 75 deaths in the East Districts, 35 occurred

in Shoreditch, 11 in Bethnal-green, and 10 in Whitechapel.

Of the 227 deaths from small-pox in London last week, 119 were reported as "unvaccinated," 86 as "vaccinated," and the remaining 22 cases were "not stated." Among the "unvaccinated" cases 29 per cent. were of persons aged 20 years and upwards; of the "vaccinated," 37 per cent. were of these ages.

Four fatal accidents caused by horses or vehicles in the streets were registered last week: a waggoner, aged 20 years, died in St. Bartho'omew's Hospital on 17th instant, from injuries through being jammed between his waggon and a wall in Thames-street; a hair-dresser, aged 48 years, died in Charing Cross Hospital on 6th instant, from injuries through being knocked down by a run-away horse in Long-acre; a carman, aged 71 years, died in King's College Hospital from erysipelas, resulting from a scalp wound caused by being knocked down by a Hansom cab; and a carter, aged 64 years, died on 2d instant at St. Thomas' Hospital, from injuries to his foot from the wheels of a van.

Dr. Frankland in his report upon the quality of the Metropolitan water supply during February, which will be found below, draws attention to the following facts. The water delivered by the Chelsea Company at the Cab-rank, Horse Guards, on 14th instant, was "turbid and contained living organisms;" that supplied by the Grand Junction Company in Woodstock-street, on 7th, was clear and transparent, but on the following day, at Lancaster Gate, it was "slightly turbid and contained living organisms." On the 14th the Lambeth Company's water was "very muddy, contained living organisms, and was quite unfit for domestic use." The rest of the companies delivered well filtered water. The best water supplied to the Metropolis during the month was sent out by the Kent Company; that delivered by the Lambeth Company was the worst, and contained "about ten-fold the amount of organic elements present in the Kent Company's water." Dr. Frankland states that he has now subjected all the kinds of water supplied to London to this operation, and has found that a very great amelioration in the quality of each is effected by its use; he adds,—"as a rule, the more impure the source of supply, as regards organic matter, the greater is the proportional amount of purification produced."

At the Royal Observatory, Greenwich, the mean reading of the barometer was 30.02 in.; the highest was 30.26 in. on Wednesday at noon, and the lowest was 29.60 in. on Monday morning. The mean temperature of the air was 43°.8, or 4°.8 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 54°8 on Sunday; the lowest night temperature was 31° 9 on Wednesday; the entire range of temperature in the week was, therefore, 22° 9. The highest temperature in the sun was 97° · 7 on Thursday. The mean temperature was above the average on each day of the week, the warmest day being Sunday, 19th instant, when the mean was 48°0, showing an excess of 9°5. The difference between the mean dew-point temperature and air temperature averaged 5° . 4. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 42° 9 last week. The mean degree of humidity of the air was 81, complete saturation being represented by 100. The general direction of the wind was W.S.W., and the horizontal movement of the air amounted to 15 miles per hour. Rain fell on each of the first three days of the week, but only to the amount of 0.06 in.

The mean temperature of the week in the other large English towns furnishing returns ranged from 45°·1 in Manchester, Bradford, and Leeds, to 43°·1 in Hull; the lowest recorded night temperature was 27°·0 in Hull, and the highest day temperature in the shade 56°·2 in Nottingham. Rain fell in each of the towns furnishing returns, except Nottingham; the amount ranging from '01 in. in Hull

and Norwich, to '28 in. in Salford.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 6°.55; the highest day temperature in the shade was 12°.66; the lowest night temperature was -0°.06; the highest temperature in the sun was 36°.50. The mean temperature of the week on an average of 50 years was 3°.89, or 2°.66 below the temperature of last week. The wind blew at the rate of 24 kilometres an hour, and the rain-fall was 15 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 215,541 cubic metres, and at Barking 245,518 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

The REGISTRAR GENERAL has to acknowledge the courtesy of the LONDON WATER COMPANIES, who have furnished him with the average daily quantity of Water supplied for the month of JANUARY 1871: thus, according to their account, 102,824,606 gallons or 467,179 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 96 7 decalitres, rather less than a ton by weight, to each house, and 13.6 decalitres (= 30.0 gallons) to each

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of December 1870, it may be estimated that about 84,505,720 gallons were probably used for domestic purposes, or about 24.6 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Registrar General has no means of giving a more exact estimate.

Companies,	Number of suppli	, , , , ,	in Gallons (in Manufactures purposes other	upply of Water eluding that for and for various er than for do- mption) during
	DECEMBER	JANUARY	DECEMBER	JANUARY
	1870.	1871.	1870.	· 1871.
TOTAL SUPPLY	482,982	483,328	97,371,249	192,824,606
From Thames	223,045	223,113	50,837,088	\$1,804,352
	259,937	260,215	46,534,161	\$1,020,254
THAMES. Chelses West Middlesex Southwark and Vauxhall Grand Junction Lambeth	27,670	27,670	7,268,600	7,203,100
	41,458	45,472	7,858,216	8,510 508
	77,277	77,277	16,427,380	16,391,400
	30,929	30,939	9,994,995	10,299,344
	45,711	45,795	9,287,897	.9,400,000
LEA AND OTHER SOURCES.  New River East London Kent	118,341	51 <sup>9</sup> ,440	21,027,000	32,400,000
	101,817	101,852	18,993,000	21,896,000
	39,779	39,023	6.514,161	0,724,354

Note.—The Return for January as compared with that for December shows an increase of 846 house, and an increase of 5,453,357 gallons of water supplied daily.

#### Analysis of Metropolitan Waters for February.

SIR, Royal College of Chemistry, 25th February, 1871.

I HAVE the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the Metropolis during the month of February, and I also append the results yielded by the Grand Junction and New River Companies' waters after the application to them of Clark's process of purification, together with the results of the analysis of the Birmingham water supply furnished by Dr. Hill.

The water delivered by the Chelsea Company was turbid and contained living organisms, that supplied by the Grand Junction Company in Woodstock-street on the 7th instant was clear and transparent, but their supply at Lancaster Cate on the following day was slightly turbid and contained living organisms. On the 7th instant the Lambeth Company's water was turbid, and on the 14th it was very muddy, contained living organisms, and was quite unfit for domestic use.

The rest of the companies delivered well filtered water.

The best water supplied to the Metropolis during the month was that sent out by the Kent Company. It contained less than one fourth of the organic elements present in the New River Company's water which was the next in point of quality. The best water supplied from the Thames was that delivered by the West Middlesex Company, and the worst, that obtained from the Lambeth Company, which contained about ten-fold the amount of organic elements present in the Kent Company's water.

The application of Clark's purifying and softening process to the Grand June tion Company's water reduced the total solid impurity to little more than one half, the hardness to one third, and the organic elements to two thirds of their original amount. Submitted to the same process, the New River Company's water had its total solid impurity reduced to less than one half, its hardness to little more than one fourth, and its organic elements to but slightly above two thirds of their previous quantity. I have now subjected all the kinds of water supplied to London to this operation, and have found that a very great amelioration in the quality of each is effected by its use. As a rule, the more impure the source of supply, as regards organic matter, the greater is the proportional amount of purification produced.

The Registrar General, &c., &c.

I have, &c.
E. Frankland.

RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

THAMES. Chelsea { 14th February, Cab Rank, Horse Guards } 6.9 29.06 232 031 001 355 387 3240 2.15 19  West Middlesex - { Cab Rank, Horse Guards } 6.9 31.08 198 035 000 391 426 3590 2.07 20  Southwark and Vauxhall { Cab Rank, Portland Road } 6.9 31.08 198 035 000 391 426 3590 2.07 20  Southwark and Vauxhall { Church, Borough. } 6.5 32.00 243 041 001 391 433 3600 2.13 21  Grand Junction - { 14, Lancaster Gate, Hyde } 5.6 31.70 241 042 002 392 484 3620 2.10 21  Ditto, softened by Clark's process - { 14th February, Park.  Lambeth { 24th February, Cab Rank, Lambeth-road } 6.4 28.94 321 060 001 353 414 8220 2.18 18  OTHER SOURCES. New River { Cab Rank, Lambeth-road } 6.4 30.60 135 018 000 377 395 3450 1.77 22  Ditto, softened by Clark's process - { Cab Rank, Tottenham-court-road.} 6.4 30.60 135 018 000 377 395 3450 1.77 22  Ditto, softened by Clark's process - { Cab Rank, Tottenham-court-road.} 6.4 30.60 135 018 000 377 395 3450 1.77 22  Ditto, softened by Clark's process - { Cab Rank, Tottenham-court-road.} 6.4 30.60 135 018 000 377 395 3450 1.77 22  Ditto, softened by Clark's process - { Cab Rank, Tottenham-court-road.} 6.4 30.60 135 018 000 377 395 3450 1.77 22  Ditto, softened by Cab Rank, Tottenham-court-road.} 6.4 30.60 135 018 000 377 395 3450 1.77 22  Ditto, softened by Cab Rank, Tottenham-court-road.} 6.4 30.60 135 018 000 377 395 3450 1.77 22  Ditto, softened by Cab Rank, Tottenham-court-road.} 6.4 30.60 32 0.00 300 300 300 300 300 300 300 300 30							-					
Chelsea   Cab Rank, Horse Guards   6.9   29.06   292   031   001   355   387   3240   2.15   19	Companies.	2	Temperature in centigrade degrees.	Total Solid Impurity.			Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sewage or Animal Contamination. (Estimated.)	Chlorine.	Total Hard-
Southwark   and   Yauxhall   -			400	29.06	·232	.031	.001	*355	*387	3240	2.12	19*4
Southwark and Vauxhall { Cab Rank, St. George's Church, Borough. } 6.5 32.00 243 041 001 391 433 3600 2.13 21 Church, Borough. } 5.6 31.70 241 042 002 392 434 3620 2.10 21 Park.  Ditto, softened by Clark's process - { 14th February, Park. } 8.9 16.58 178 021 002 418 441 3880 2.10 7 Park.  Lambeth { Cab Rank, Lambeth-road } 6.4 28.94 321 060 001 353 414 8220 2.18 18 OTHER SOURCES. New River { Cab Rank, Lambeth-road } 6.4 30.60 135 018 000 377 395 3450 1.77 22 010 010 010 010 010 010 010 010 010	West Middlesex -	{ Cab Rank, Portland Road }	6.9	31.08	•198	.035	.000	*391	*426	3590	2.07	20.8
Grand Junction   Start London   St		{ Cab Rank, St. George's }	6.2	32.00	•243	.041	*001	.391	*433	3600	2.13	21.2
Clark's process   Cab Rank, Lambeth-road   S-9   16.58   178   1021   1002   1418   1441   3880   2.10   78   78   78   78   78   78   78   7	Grand Junction -	14, Lancaster Gate, Hyde }	5.8	31.70	*241.	.042	*002	*392	*434	3620	2.10	21.2
Cab Rank, Lambeth-road   6.4   28.94   321   000   001   363   344   3220   2.18   88	Ditto, softened by Clark's process	14. Lancaster Gate, Hyde	8.9	16.28	178	.021	*002	*418	*441	3880	2.10	7.0
New River   Cab Rank, Tottenham -   6.4   30.60   135   135   108   1000   1377   1395   13450   1.77   22	Lambeth		6.4	28.94	*321	.060	*001	*353	•414	3220	2.18	18.2
Cab Rank, Tottenham-		Cab Rank, Tottenham-	6.4	30.60	*135	.018	*000	*377	*395	3450	1.77	22.8
East London { Slater's Lamp Black Wrks., } 7.8 35.64 257 .045 .000 .460 .505 4280 2.30 24 Color Ford-road.   Kent { Deptrd. Bdge. Police Stat. } 11.1 40.36 .032000 .4684360 2.53 29   Color Ford-road.		Cab Rank, Tottenham-	-	13.76	100	.011	.004	*375	*389	3460	1.80	6.0
Deptfd, Bdge. Police Stat. 3 11 1 40 36 032 - 000 408 - 4500 2 33 23	East London	Slater's Lamp Black Wrks >	7.8	35.64	257	*045	.000	•460	•505	4280	2.30	24.2
C 6th February	Kent	{ Deptfd. Bdge. Police Stat. }	11.1	40.36	*032	-	.000	468	-	4360	2.53	29 . 3
Birmingham {BirminghamWaterSupply} - 41.50 .306 .028 .008 .439 .473 4140 3.01 24	Birmingham	6th February, BirminghamWaterSupply	-	41.20	*306	.028	.008	•439	•473	4140	3.01	24.5
(Column 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	Column 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 14th February at the Horse Guards' cab rank had a temperature of 6° 9 C.; 100,000 lbs. of it contained 29 06 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained \*232 lb. of carbon and \*031 lb. of nitrogen. The above quantity of water also contained \*001 lb. of ammonia, 2nd \*355 lb. of nitrogen in the form of nitrates and nitrites, whilst the total amount of combined nitrogen in every form was \*387 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contaminated with animal matter equivalent to that contained in 3240 lbs. of average London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 2 15 lbs. of chlorine. Finally, 100,000 lbs. of the water contained 19 42 lbs. of carbonate of lime, or an equivalent quantity of other hardening or soap-destroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation

transforms the hardness in the Table into degrees of hardness on Clark's scale.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the Eighth Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Average of 10 Weeks.	1871
Total Births  Males Females .	1891	1965	1908	2000	2290	2350	2342	2315	2223	2368	2165·2	2463
	1035	973	1012	1019	1144	1189	1178	1159	1153	1225	1108·7	1278
	856	992	896	981	1146	1161	1164	1156	1070	1143	1056·5	1185
Total Deaths  Males Females	1318	1415	1377	1677	1590	1630	1337	1336	1419	1861	1496·0	1633
	661	703	701	828	804	912	678	683	709	955	763·4	808
	657	712	676	849	786	718	659	653	710	906	732·6	825

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	Dec.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Jan. 7.	Jan. 14.	Jan. 21.	Jan. 28.	Feb.	Feb. 11.	Feb. 18.	Feb. 25.
Total Deaths	1482	1586	1737	1377	1760	1828	1896	1846	1632	1683	1749	1625	1633
Deaths under 5 years of age - Deaths 5-20	629 126	647 159	688 154	540 143	672 150	651 142	660 135	650 156	601 142	603 139	640 166	642 142	627 163
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	198 222 255 52	219 239 280 42	253 278 301 63	205 215 218 56	250 294 322 72	242 330 391 72	241 355 412 93	271 294 377 98	224 282 318 65	284 285 306 66	260 281 333 69	247 265 280 49	246 263 267 67
Deaths from Smallpox , , Measles - , , Scarlet Fever - , , Diphtheria - , , Whooping-cough , , Typhus fever - ,	60 33 130 11 25 12	61 27 116 7 32 12	44 27 135 9 44 9	82 25 104 6 33 16	110 29 110 8 49 10	79 34 112 4 36 10	135 27 77 9 38 10	188 17 68 6 51 5	153 12 65 8 47 10	196 12 49 6 43 11	211 9 46 10 51 13	218 11 48 8 58 11	227. 15. 47. 2. 54. 12.
", Enteric (or Ty- phoid) fever - { ", Simple Contd fever ", Diarrhœa ", Simple Cholera -	21 15 12	26 16 13 1	23 15 12 —	30 12 9	21 13 6	18 9 19	17 11 17	12 17 17	14 5 10	15 13 14	14 16 14	15 9 14 —	15 7 14 1
ny phthisis Bronchitis Pneumonia - ny Heart Disease -	144 222 89 79	167 244 101 71	173 249 114 74	144 174 75 57	185 265 105 88	186 319 93 102	178 377 91 109	155 309 89 93	162 250 84 71	174 248 90 82	175 223 83 75	166 194 66 89	138 177 75 94
Mean Temperature of the Air	38.9	32.5	42.8	33.0	25.7	31.1	33.0	37.1	32.4	34.9	41.6	42.7	43.8
Mean Temperature of the Water of the Thames -}			-	_	_	_	-	_	_	34.6	40.1	40.5	42.9
Humidity of the Air	87	89	92	78	85	84	87	93	84	91	82	87	81
Rain-fall in inches	0.01	0.84	1.70	0.17	0.42	0.07	0.08	1.32	0.54	0.19	0.72	0.02	0.06

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S. :—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., W. R.S., Workmanpton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartunp, Esq., F.R.A.S., Liverpool; T. Mackeroth, Esq., F.R.A.S., F.M.S., Beeles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 25th day of February 1871, in the following large Towns.

						d the lone	8	8	الباران فنفوا			
	CITIES	Area	Estimated Population	Persons	Births registered	DEATHS registered		ATURE OF		TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALL.
TO TO TO	BOROUGHS.	in Acres.	in the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 25th Feb.	during the Week ending 25th Feb.	Highest during the	Lowest during the	Weekly Mean of the Daily	Weekly Mean of the Daily	In Inches.	In Centi- metres.
					1871.	1871.	Week.	Week.	Mean Values.	Mean Values.		THEM ES.
ave ro	Total of 20 Towns in the United Kingdom	213,281	7,336,941	34.4	5541	3724	61.7	27.0	44.8	7.11	0.14	0.36
1	LONDON -: -	77,997	3:258,469	41.8	2463	1633	54*8	31*9	:43*8	6.55	0.08	0.12
3	PORTSMOUTH	9,513	125,464	13°2	80	36	54.2	31'4	44.3	6.84	0.14	0.36
ŭ	NORWICH	7,472	81,787	10.9	58	80	54.0	30.0	43.8	6°55	0.01	0.03
2	BRISTOL	4,688	173,364	37.0	145	84		-			_	
епапр	WOLVERHAMPTON -	3,387	74,438	22.0	61	22	54.3	31.3	48.7	6.20	0.53	0.28
	BIRMINGHAM	7,831	378,574	48.3	300	146	54°8	33.6	44.7	7.06	0.19	0.48
нек	LEICESTER	3,200	101,367	31.7	82	42	54°2	29.5	43.7	6.20	0.07	0.18
M	NOTTINGHAM	1,996	90,480	45*3	49	27	56°2	28.7	44.4	6*89	0.00	0.00
The	LIVERPOOL	5,108	526,225	103.0	370	452	54.3	35.2	44.4	6*89	0.17	0.43
o fib	MANCHESTER	4,486	379,140	84.5	294	154	55 <b>°</b> .0	30.2	45°1	7.28	0.27	0.69
min	SALFORD 4 4 4	5,172	123,851	23.9	99	56	53.9	30.0	44.4	6.89	0.28	0.71
5	BRADFORD	6,590	148,030	22.5	140	67	54.4	34.0	45°1	7.28	0.08	0.50
1	LEEDS -	21,572	266,108	12.3	182	122	56.0	34.0	45'1	7.28	0.08	0.50
LOI	SHEFFIELD	22,830	255,247	11.5	183	109	54.5	32.1	44.9	7.17	0.06	0.12
NYXIX	HULL	3,562	135,195	38.0	88	50	55.0	27.0	43.1	6.17	0.01	0.03
24.00	SUNDERLAND -	3,306	103,037	31.2	87	58	<u></u>			· 144		
8	NEWCASTLE-ON-TYNE	5,336	136,293	25.5	89	66	52.0	35.0	43.7	6.20	0.10	0.25
1	EDINBURGH -	4,427	179,944	40.6	2 / 127	83	53.7	41.0	47.1	8.39	0*40	1.02
1	GLASGOW .	5,063	477,627	94.3	403	304	61.7	40.0	49.4	9.66	0.34	0.86
-1	DUBLIN	9,745	322,321	33.1	241	183	59.1	30.0	45.6	7.55	0.04	0.10
1	PARIS	19,279	1,889,842	98′		-		20120		-		-
	VIENNA	9,212	622,087	68	1 12	14				نشد	- <u>- 11</u>	٠,٠
14.	BERLIN	15,451	800,000	52		-	-					100

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Week ending Saturday the 25th day of February 1871.

	ANNUAL						ns regi		in the V	Veck in	elude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhosa.	Violence.	Inquest Cases.	In Public Institutions.
Total of 17 Towns -	26	3154	740	629	358	43	108	11	88	95	27	117	216	552
LONDON PORTSMOUTH NORWICH	26 15 19	1633 36 30	343 6	334 11 6	227	15 - -	47 2 5	2 -	54 1 1	84 - -	14 - -	64	139 3	338
BRISTOL	25	84	28	23		1	5		2	2	-	-	2	11
WOLVERHAMPTON - BIRMINGHAM - LEICESTER - NOTTINGHAM -	15 20 22 16	22 146 42 27	2 35 12 8	9 35 8 10	1 1 1 1	6	4 2	2	1	5 -	1 -	9	18 -2 1	6 27 4
LIVERPOOL MANCHESTER SALFORD BRADFORD	45 21 24 24	452 154 56 67	110 42 13 21	77 22 7	129 1 -	11 7 2	12 3 1	2 1 2	13 - 3 2	26 5 1	3 1 1	22 6 2	25 9 2	100 22 2 4
LEEDS	24 22 19 29 25	122 109 50 58 66	35 28 9 26 21	15 17 14 15 14	- 1.	1 -	4 8 5 2 2	2	1 2 - 4 4	6 9 3 1	3 1 1 - 2	3 3 3 1 1	5 4 3 1	5 17 7 - 6
DUBLIN	30	183	38	42		2	,7	1	5	9	1	5	4	34

TABLE 5 .- DEATHS in LONDON Registered in the Eighth Week of the Year 1871.

,																	
	Averages of the Eighth Week. the 10 years 1861-70.	Satu	In th	he W	eek brua	endir ry 25	ng 5, 187	1.		Averages of the Eighth Week the 10 years 1861-70.	Satu	In thurday	e W	eek orua:	endir ry 25	ng , 187	1.
	Week		Dent	hs of the	Per	sons	of		- // 11 -	week Week		Deatl	hs of the	Pers	sons	of	
CAUSES OF DEATH.	erage ighth 10 yes	ALL		der	40.	. 60.	.80	and	CAUSES OF DEATH.	rerage lighth 10 yea	ALL	Uno	der	. 1	. en	.80	and
	Av E in the	Mean	2	0.	under	under	under	ars a		Av E in the	Mean	20	-	under 40	under	pun	Years a
Mean Temperature	40.2	Tem.	0-5.	5-20.	20 and	40 and	and	80 Years upwards.	Mean Temperature -	40.1	Tem.	0-6.	5-20.	20 and	40 and	42	80 Уе
ALL CAUSES	1496.0	1633	627	-	-	263		67	9. Stricture of Intestines -	.6	1		-	-	-	1	
SPECIFIED CAUSES	1480.3	1625	623				265		10. Fistula	6.9	4	ĩ	-	1	1	- 1	
I. ZYMOTIC DISEASES. ORDER 1.								,	13. Hepatitis	3·4 4·3 18·2	2 5 17	1	-	1 08 0	2 2 10	- 8	ŀ
1. Small-pox	16.3	227 15 47	86 14 29	68 1 15	65 - 3	8	-	1 1 1	15. Liver Disease, &c 16. Spleen Disease, &c ORDER 5.		3		-	3 2	-	1	
4. Diphtheria	48.8 9.5 1.9	2-	2	- 2		_	-	-	1. Nephritis	1:0	5	1 -	-	1	-	2 - 2	1
6. Croup 7. Whooping-cough 8. Typhus )	17·4 65·2	8 54 12 15	6 54	3	-444	2	3	-	3. Bright's Disease (Nephria) 4. Diabetes	10·9 2·1 ·6	8 2 1	Ē	-	1 -	5 1 -	1	H
- Enteric or Typhoid Fever	6.1	10	3 4	6 2 -	4 4	1 1 4	1 2	-	6. Cystitis 7. Kidney Disease, &c	1.3	6		-	2	2	2	E
10. Puerperal Fever (Metria) 11. Carbuncle	4·4 1·2 ·7	2	=	-	-		- 1	î	ORDER 6. 1. Ovarian Dropsy 2. Uterus Disease, &c	1.0 4.0	1 4	-	-	1 2	- 2	-	-
13. Dysentery 14. Diarrhœa 15. Simple Cholera	2°0 13°8 5	3 14 1	1 9 1	-	1	1 -	2	2	ORDER 7.  1. Synovitis (Arthritis)	.3	-	_		_		_	
16. Ague	9°4	7	-	- 3	- 2	-	- 1	-	2. Joint Disease, &c ORDER 8.	5.4	7	1	1 2	4		-	
19. Other Zymotic Diseases - ORDER 2.	.2		-	-				-	1. Phlegmon	1.4 1.3 1.1	8 -	2 - 1	-	-	1 -	-	-
1. Syphilis 2. Stricture of Urethra - 3. Hydrophobia	7:3	11 1	9 -	-	2 -	1	-	-	3. Skin Disease, &c IV. DEVELOPMENTAL								
4. Glanders ORDER 3.	*5	2		-	-			-	DISEASES. ORDER 1.	23.3	24	04				-	
1. Privation 2. Want of Breast-milk - 3. Purpura and Scurvy -	6.9	11	14	1	-	-	1 -	-	1. Premature Birth 2. Cyanosis	5.9	2 -	24 2 -	-	-	-	-	
4. Alco y a Del. Tremens - holism b Intemperance - ORDE 4.	2.3	-	-	-	-	1		-	4. Other Malformations - 5. Teething	19.5	24	24		-	=		
1. Thrush	2.4	4 -	4 -	-	-	-	-	-	ORDER 2.  1. Paramenia 2. Childbirth (see Puerperal)	6.2	2	-	-	- 2	-	-	E
II. CONSTITUTIONAL DIS. ORDER 1.									Fever) (		-				-		
1. Gout	1°4 15°5 30°6	10 36	=	ī	2 3	3 20	1 4 13	2	1. Old Age ORDER 4.	61.4	54	-		-	-	24	30
4. Cancrum Oris (Noma) - 5. Mortification ORDER 2.	4.6	8	ī	-	ī	1	3	2	1. Atrophy and Debility -	58.1	60	51		1	2	6	
1. Scrofula 2. Tabes Mesenterica 3. l'hthisis	9.0	8 13 138	13 6	1	-	3 -	-	-	V. VIOLENT DEATHS, &c. ORDER 1. (ACCIDENT OF NEGLIGENCE.)	The state of the s				1			
4. Hydrocephalus	170·3 83·2	28	21	15	66	47	4	-	1. Fractures and Contusions 2. Wounds	15:0	26	1	2	5	10	8 -	Ē
ORDER 1.  1. Cephalitis	15.7	21	11	6	4	3			3. Burns and Scalds 4. Poison 5. Drowning	9·4 1·5 2·9	5 -4	3 -	- 2	1	-		1
2. Apoplexy	31.9 5.0	40 30 - 5	2 -	1	8 1 2	14 9	14 16 3	1 4	6. Suffocation 7. Otherwise	11.2	3	16	-	_		1	ĩ
5. Chorea	6.8 61.5	7 61	60	1	3	2	ī	1 1 1	ORDER 3. (HOMICIDE.)								
8. Brain Disease, &c ORDER 2.	17:5	17	7	-	2	3	<u> </u>	-	1. Murder and Manslaughter ORDER 4.	3.1	4	4	-			-	
1. Pericarditis 2. Aneurism 3. Heart Disease, &c	2°4 2°5 68°3	1 3 94	3	7	8	43	27	1 - 4	(SUICIDE.)  1. Wounds {Gunshot - Cut, Stab -	·2 ·7	-	-	-	-	-		
ORDER 8.	10.1	21	13	3	2	3		_	2. Poison	1·2 1·3 1·5	1 8		1 -	2	-	1	E
2. Bronehitis	208°I 3°0 79°4	177 2 75	51 - 48	6	00 00 00 00	31	71	11 - 2	4. Hanging 5. Otherwise	-6	1-		-	-	-	-	E
5. Asthmn 6. Lung Disease, &c ORDER 4.	16.8 14.7	20	6	2	1	4	5	2	ORDER 5. (EXECUTION.) 1. Hanging	•5	_						
1. Gastritis	2°0 4°1 5°0	2 5	1	- 2	-	-	3	1	Violent Deaths (not classed)	-1			_	_		_	
4. Ascites 5. Ulceration of Intestines -	1.8 2.3 3.1	1 5	ī	ī	1	2	1	-	Sudden Deaths (Cause un-	3.9	2	1	-	-	-	1	
6. Hernia 7. Ileus 8. Intussusception	8.1 1.1	5 3 -	2	-	-	1 -	1 -	111	Causes not specified or ill-	12.8	6	3	-	-	2	1	ŀ
		-		_	-	-	-	-			_		-	-		-	

NOTE. - Where a person is "tound drownet" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

## Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

ABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

-	and the second second												aaı	ring	tne	w ee	k en	ning
-			during	during				The	DEAT	HS re	gister	d in	the V	Veek i	nelud	e		
EDNOARI TOLL	REGISTRARS* SUB-DISTRICTS.	LATION,	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diuhtheria.	Whooping-cough.	Trphus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.t
en P	LONDON	2,803,989	2463	1633	343	334	227	15	47	2	54	12	15	7	14	64	149	338
Daufferay, rom	WEST DISTRICTS	458,125 618,210 383,321 571,158 773,175	362 516 266 560 759	297 47 5 . 47 3 18 436	60 64 30 83 106	76 87 28 48 95	20 75 10 65 57	3 5 - 2 5	5 14 5 7 16	1 - 1	11 9 4 18 12	7-4	1 7 2 2 3	1 2 - 3 1	5 2 - 7 -	11 13 10 12 18	29 41 22 22 22 25	52 107 29 68 82
THE WAR ASSESSED THE WARK PHILLING	WEST DISTRICTS.  St. Mary Paddington WH St. John Paddington WH St. John Paddington WL St. Fotor Hammersmith WI St. Peter Hammersmith H St. Paul Hammersmith H St. Paul Hammersmith H Chelsea North-west HWW Chelsea North-west HWW St. May Fair W	\$9015 \$6769 \$1910 \$1910 \$115 \$115 \$115 \$1104 \$15539 \$1654 \$1989 \$1886 \$19773 \$17483 \$17483 \$17730 \$17753 \$18966 \$1907 \$17426	51 14 61 15 2 13 22 24 18 15 5 15 38 18 20 2 9 8	40 9 57 8 2 11 13 13 9 12 6 13 25 28 34 2	10 1 13 1 -4 2 5 1 4 6 4 -2 1	13 17 17 12 12 2 3 4 - 2 7 6 5 7 - 1	2	2	1 2 2	1	1 3 3 1		1	1	1	3 6 1	5 12 1	4 1 1 1 - 9 1 2 16 3 - 7
D	NORTH DISTRICTS. All Souls Marylebone HH	29952 1,5490 26692 22493 34913 32940 19106 34997 29371 27588 30099 23266 44317 75442 79899 66'8 5483 24265 31481 15458	17 10 13 23 22 21 23 31 14 16 27 72 78 8 3 21 40 15	15 3 24 9 17 13 36 10 17 13 15 14 24 73 48 3 40 20 34	3 -4 8 2 3 1 2 1 3 4 1 4 1 8 4 6 4	8 2 4 1 5 1 4 2 4 8 4 12 13 1 3 5 4 2	1 24 1 4 8 1 1 6 6 13 1 1	1	2 2 1 1 6 2 1		2211	61	1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		221	3-1-2-1-1852	3 10 1 1 25 6 1 9 8 23 10
	CENTRAL DISTRICTS.  St. George Bloomsbury - St. Giles South WH - St. Giles North - St. James Clerkenwell W - Anwell Clerkenwell - Pentonville - Goswell-street - City-road WHL - City-road WHL - St. Botolph East London HH - Cripplegate - St. Botolph East London HH - Cripplegate - St. Sepulchre H - St.	17392 19483 17291 11618 11071 10345 11297 19903 12947 12012 19152 17250 11250 11250 11260 11370 114778 12831 12931 12932 14778 12931 12932 1478 12931 12932 1478 12931 12932 1478 12931 12932 1478 12931 1478 1478 1478 1478 1478 1478 1478 147	15 26 7 4 6 5 7 19 11 6 6 12 13 13 10 20 24 8 8 11 11 8 6 24 8	6115 4 9 9 3 14 11 2 2 8 8 8 5 6 6 5 7 9 8 8 4 1 1 1 1 4 2	111221112231	21	22 11 11 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1		3 3	PHART CONTINUES TO THE		CALLEGE ABBARBARBARA ALALAKA	1	CONTRACTOR CONTRACTOR CONTRACTOR		9 4 1	2 2 - 1 1 2 2 1 1 1 2 2 1 1 1 1 2 1 1 1 1	7 5 8 1 1 2 2 1 1 1 1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

#-Workhouse;
H-Hospital;
L-Lunatic Asylum;

\*\*The Small-pox and Fever Hospitals are situated in the sub-district of lightness of Public Institutions are not inc

<sup>†</sup> Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 25th February 1871.

Saturday, 25th February 1871.													_	_			
1 1 -4 1 1		during	during				The l	DEATI	as reg	istere	d in	the W	eek in	nelude	3		
REGISTRARS' 8UB-DISTRICTS.	POPU- LATION, 1861.	Total Birrus du	Total DEATES du	Under 1 Year of Age.	60 Years of Age and upwards.	Small pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
FAST DISTRICTS.																	
Holywell Shoreditch  St. Leonard Shoreditch HL†	17313 19188 26516 25777 23260 17310	15 12 25 30 17 11	6 18 25 15 24 4	1 4 4 7 -	5 - 3 2	8 12 11 3 6	-	11111	1	1	- - - 1	1	111111	1111111	- - 1 -	1 3 -	9 12 - 6 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 81789 25528 21456	38 46 28 18	15 21 8 10	3 2 2 2	2 3 - 1	4 1 8 3	ī -	1		ī	-	1111	1 -	1 2 -	2 -	1 1	3 -
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Shadwell W	12537 16874 27161	3 10 23	2 8 17	3 10	- 2 1	1 -	7 1 2	-	-	1 2			-	- 1	=	ĩ	1 -
Mile End Old Town West Mile End Old Town East WwH	83747 89817	41 37	16 20	3 5	3 5	1	-	ĩ	-	2 3	1 -	-	-	1	-	-	-4
Bow WwHLt	85667 43529	63 52	34 25	9	6 5	3 -	-	2 -	-	3 4		- 1	1 -	1 -	1 -	2 -	10 4
SOUTH DISTRICTS.  Christchurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	11 13 12 25 16 30 42 11	15 6 15 14 15 14 21	4 2 1 4 3 7 8 1	5 3 2 2 2 1 5 3	1 2 5 3 2 4 1 -	- 1 1 - -	- - - 1 -		1 1 1 1 1 1 1			1	1111111	2 - 1 1 2 - 1	2 - 2 2 2 1 2	5 - 32 - 64
St. Olave Southwark H	7663 11398 16696 16505 251 <i>5</i> 4 24 <i>5</i> 02	1 10 9 17 43 29	11 17 13 7 27 19	2 1 3 10 2	2 4 2 4 3	1 4 2 5 3	11111	1	11111	- - - 1	11111	111111	1 1 1 1	1 1 1 1 1	2 - 1 1 1 1 1	2 1 2 2 1	10 9 - 1 - 5
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	11 19 12 28 32 15 30 6	8 4 6 22 9 4 24 4	- 3 6 3 1 5	1 6 2 2 4 4	1 - 2 • 1 · 8	1 1	1	1111111	2	111111	1	1111111	1111111	111	2	11 - 8 -
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Dulwich Camberwell WL†L† Peckham W St. George Camberwell	1728 21297 28135 20383	1 35 22 18	1 12 18 16	- 4 3	5 6 4	- 1 2	1111	1 1 3		1	1111	1	-11-1	1117	1 -	1 1	5 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	42 7 16 10	17 - 6 14	9 2 2	1 3 4	1 -		1 -	-	1 -			1111	1111			- - 7
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Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead, West	9276 22919 18776 } 24502 {	9 13 15 16 12	1 4 8 8 2	5 2 -	1	1		- - 1 1	11111	1 -	11111			11111		11111	1

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.
The Strand - " " Tottenham-court sub-district.
London City - " " Islington East.
Lo. do. " " Hackney sub-district.
St.

Holborn Workhouse is in Hoxton New Town sub-district.

(Mile End Old Town Eastern sub-dist, and Stepney - "Bow sub-district.

Stepney - "Bow sub-district.

† Lunatic Asylums where paupers are admitted.

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1871. MONTH AND FEBRUAT

MEDNESDA THERE RAINAY FRIBAY .

MONDAY. TUESDAY NENDAY

TAURDER

									ì	Meteoro	logic	al C	bse	rvati	ons.		-0.1	-1			- 1
				9u02O		:	:	: :	:	::	:	56		hose	dry	aily and ults the	well by rage rva-	rol.	ring	i.	Bay;
RAIN.	Collected	in a Gauge	receiving surface	ed	Inches	0.01	0.01	00.0	00.0	00.0	Sum 0.06	66		we the m	eter, the	The mean daily of the dry and The results 17, include the	P.M., as termined The aver ical obse	d – "low nderstood	lf-register opth of al	f Lieut.	the weeke same of on the 2 week.
		Robinson's.	Amount of	Movement of Air each day.	Miles.	450	589	251	336	338	Sum 2540	42		dered to be coincident with those	he barom converte	values of adition volumn 7	; and 9n, ers, as de to each. remometr	ing 1505, igher," an e to be u	use of se	by permission of LieutCol	uning of M. on th Sh. P.M. nd of the
	eters.	-		Mean of 24 Obs.	lbs.	8.0	9.1	0.1	0.5	0.5	: -	8.7		be 159 to be	ss of the	daily daily surth ed in	n. P.W. nomet oplied the the	ad "h	by the Ship	y peri	e begin r 3h. P. in. by the er
	nemom		on squa	Least.	lbs.	0.0	0.0	0.0	0.0	0.0	:	355		ed to	reading se tim	ans., Fresh	oon; 30 therm cing a from	ou year is re servati	ained Polic	hip, by	at th    afte   30'18   in. at
WIND.	d from	6.	Pressure on square foot	Great-	lbs.	11.9	9.81	4 64	1.7	1.8	:	5,		onsider are con	at the	hil. Trabseral Tab	inimun tions u	in the identification of the control	ascert rpion'	the s	0.06 in, nary ti sed to as 30.1
	As deduced from Anemometers	Usler's.	Direction.	P.M.			Z WOW.	W. &	WSW.&	WSW. WSW.& S. by E.	W.	0,7	NOTES	meter is conster a	ing and continuous. The cost reaching as the dry are in the dry as the mans of the readings of the barometer, the dry it, observed at these times, are converted into mean earliers defined by James (Slaisher F. B. 8. from five	r 31.—See I duced from Lygrometric or the nun	un and m	reenwich, orne in mir meteorolog ht to midni	Thames is of the "Score	nspector on board the ship, stioner of Metropolitan Police.	sed from 3 early statio 2d; decrea
1 12 1			General D	A. M.		SW.	SW. S. N.	N. & WSW.	WSW.	SW. WSW.	MSM	10		The height of the eistern of the barometer is considered to be 159 feet above the mean of the new The rednings of the barometer are considered to be coincident with those the Donor Soviety finite for the parameter of the parame		year's observations ending 1845, December 31.—See Phil. Trans., part 1, 1848. The mean daily developed the whole and degree of fundity are deduced from those mean daily values of the dry and wet built blermoneters by Garsler's Hygometrical Tables, Fourth edition. The results wet built blermoneters by Garsler's Hygometrical Tables, Fourth edition.	observations of the dry distinguished; read at the A.M.; noon; 3n. P.M.; and 9n. P.M.; as well the results deduced from the maximum and minimum thermometers, as determined by the self-results deduced from the proper corrections being applied to each. The average temperature of the art determined by Mr. Glassher from the thermometrical observa-	thous bearen as the role of a Cosey above, ordenwith in the by years ending 1809, December 31.  *In reading the l'7th column it will be borne in mirat that - is read " higher," and - "lauer," than the average. The results of all the undergrouping to be been average, the results of all the undergrouping to the civil day, or from midnight to midnight.	The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the stilled the "Scorpion". Police Ship, at the depth of about 9 fred helped the surface. The register of these instruments are sensioned under the surface.	intendence of the resid at inspector of hospital Police.  Henderson, R.E., C.B., Commissioner of Metropolitan Police.	The realing of the baronicler decreased from 30.06 in, at the beginning of the week to 29 whin by 90. A.M. on the 20th; was nearly stationary till after 30. P.M. on the same day; increased to 30.25 in. by noon on the 22d; decreased to 30.18 in, by 3h. R.M. on the 22d; increased to 30.25 in, by 90. A.M. on the 22d; and was 30.11 in, at the end of the week.
Degree	of Hu-	complete Satura-	being repre-	ented by 100.	,	88	78	80	62	78	18	×		cistern certair	.w.; and wet the	iding 18 of hum ers by (	ed from ed from ermome ir is tha	oyar Cos h colum he result day, or fi	of the wanded fro	resid ut	e baronn on the 2 by noc by 9b. A
	Between	mean tem-	mean tem-	the same day in an average of 50 years, *			5.00		6.9 +	++	+ 4.8		,	cight of the the sea. The	on A.M.; noon; Si. P.M.; and 9h. P.M.; Shernometer, and the West thermometrially and the momental land was the momental to the momental to the supplication of contractions.	rvations er and degree dhermomet	is of the calls deduced istering the a	ing the 17t. rerage. The the civil of	The temperature of the thermometers, suspended feet below the surface	ntendence of the residuation Henderson, R.E., C.B., Commis	ung of the '9h. A.M. c to 80'25 in o 80'25 in.
DIFFERENCE	oint 1.		1	Least.	-	6.0	2.5	0.0	2.0	1.2	21 60	9		e heigh	M.; n	s observable point south the pull the treatment of the treatmen	ne resucher	n read the av	ne tem momet t helov	ndence	o in. by
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0	-	ater of	tering	-	:	40.5	43.1	48.0	41.8	41.4	41.8	1.8	The State of			eavy rain	mounts o ram ki				
1.		In the W	Self-registering Thermometers	Highest.		43.6		440	44.0	43.4	43.9	31	HERRE.		sionally.	sasional b	ariable a t. Thin	in the morning.			
ERS.	1	Grass, as,		Minimum Thermo- meter.	-	87.1	95.3	0.93	35.0	31.8	33.5	=	AND ATMOSPHERE		fell occa.	t and occ	coing. V		P.M.		
OF THERMOMETERS.	Highest in	shown by		bulb in vacuo. placed on the Grass.	- (	75.5	80 8	0.98	1.16	68.0	9.08	10	i L		. Thin rain fell occasionally.	Cloudy t'll nicht. Stronz wind and occasional beavy rain about n. on. Cout less and fine at night.	ing the early mouning. Variable amounts of cloud still night, then overeast. Thin rain tell occa-	Slight fog	Cloudless after th. P.M.	ut.	A dull day.
	Dew	Point.	Niean	daily	(	44.5	37.6	34.9	89.8	38.8	38.3	6	SKY		vereast.	nicht. less and	aring th at till	e day.		roughout.	doudy.
READINGS		-	Moan	daily	(	48.0	44.0	40.6	46.1	43.0	48	oc o			Generally over	dy tell	Rain ell duri weer prevaient sionally.	A very fine	A fine day.	Overcast thro	Generally ok
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DATE. FEBRUAR. LOYDOR: Printed by Grorge R. Ever and William Spoilismoode, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Off oc.

SALLY REDAIL . 25

UTSDAY

## WEEKLY RETURN

OF

# BIRTHS AND DEATHS IN LONDO

OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 9. 1871. Vol. XXXII,

WEEK ENDING SATURDAY, MARCH 4.

Price 1d.

General Register Office, Somerset House, 6th March 1871.

DURING the week ending Saturday the 4th instant, 5554 births and 3747 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality in the week was at the rate of 27

deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, stated in the order of their topographical arrangement, were as follow:—London 25 per 1000; Portsmouth 15, Norwich 20, Bristol 25, Wolverhampton 22, Birmingham 21, Leicester 20, Nottingham 22, Liverpool 36, Manchester 25, Salford 25, Bradford 20, Leeds 22, Sheffield 24, Hull 19, Sunderland 31, and Newcastle-upon-Tyne 31. The deaths from small-pox in these towns, which had been 303, 327, and 358 in the three previous weeks, declined to 312 last week, of which 213 occurred in London, 89 in Liverpool, 5 in Newcastle-upon-Tyne, 2 each in Salford and Hull, and one in Sunderland. These numbers showed a decline of 14 in London, and of 40 in Liverpool, while the fatal cases had increased in Newcastle. The annual death-rate from small-pox was equal to 3 4 per 1000 last week in London, and to 8 9 in Liverpool.

In Edinburgh the annual rate of mortality from all causes last week was 30 per

1000 persons living, in Glasgow 38 per 1000, and in Dublin 34.

It is now 33 weeks since the Weekly Returns from Berlin, and 24 weeks since those from Paris, were discontinued on account of the War. In Brussels the death-rate in the week ending 25th ultimo was 41 per 1000; the fatal cases of small-pox were 40, against 34 and 41 in the two previous weeks. In the City of Bombay the deaths registered during the week ending 7th February were 363 (exclusive of still-born), and the mortality was at the annual rate of 23 per 1000. In the City of Madras 243 deaths were registered in the week ending 20th January, showing an annual death-rate equal to 30 per 1000 of the population. In the City of New York the deaths registered in the week ending 11th February were 500, and the equivalent annual rate of mortality 28 per 1000.

In London 2410 births and 1591 deaths were registered last week. After making due allowance for increase of population, the births exceeded by 18, while the deaths were 5 below, the average numbers in the corresponding week of the

ten previous years.

Zymotic diseases caused 450 deaths, including 213 from small-pox, 15 from measles, 53 from scarlet fever, 11 from diphtheria, 53 from whooping-cough, 36 from fever (of which 14 were certified as typhus, 17 as enteric or typhoid, and 5 as simple continued fever), and 13 from diarrhea; thus to the seven principal diseases of this class 394 deaths were referred last week, against 392 and 393 in

the two preceding weeks.

The fatal cases of small-pox in London, which in the four previous weeks had been 196, 211, 218, and 227, declined to 213 last week. In nine permanent and temporary hospitals for this disease, 59 deaths were recorded last week. After distributing, so far as is practicable, these deaths in hospital among the districts from which the patients were admitted, it appears that 41 deaths from small-pox last week belonged to the West group of Districts, 39 to the North, 14 to the Central, 63 to the East, and 56 to the South. The fatal cases showed a decline last week in each of these groups of districts, except in the West where they were more numerous.

[9.7

Mr. John Liddle, M.R.C.S., Medical Officer of Health in Whitechapel, calls attention to a great want which exists, not only in the Metropolis but in all large towns, of hospital accommodation for those suffering from epidemic diseases, who, not being paupers, could afford to contribute to their support while inmates, and thus secure more efficient attendance during their sickness than would be possible in their own homes; while the local risks of contagion would be materially decreased. This want, he says, has been especially felt in the East Districts during the present epidemic of small-pox.

Two fatal accidents caused by horses or vehicles in the streets were returned last week: a wheelwright, aged 33 years, died in the London Hospital on 24th ultimo, from a fractured skull through falling from a van; and a lighterman, aged 58 years, died in Guy's Hospital on 28th ultimo, from injuries through being

run over by a waggon at Horsleydown.

In the large Public Institutions of the Metropolis 281 deaths were registered last week, showing a proportion of 17 7 per cent. upon the total deaths; of these 114 occurred in Workhouses, and 162 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer during the week was 29.96 in.; the highest was 30.35 in. on Wednesday at noon, and the lowest 29.59 in. on Monday morning. The mean temperature of the air was 45°.7, or 5°.6 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 64° 8 on Friday; the lowest night temperature was 30° 1 on both Thursday and Friday; the entire range of temperature in the week was, therefore, 34°·7. The highest temperature in the sun was 110°·0 on Friday. The mean temperature was only 37°·3 on Wednesday, and 2°·9 below the average, while it showed a considerable excess on each of the other days of the week, the warmest day being Saturday, when the mean was 51° · 8 and 11° · 7 above the average. The difference between the mean dew-point temperature and air temperature averaged 6° 0. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 43°8 last week. The mean degree of humidity of the air was 79, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air amounted to 13 miles per hour. Rain fell on Monday and on Tuesday afternoon, but only to the amount of '11 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 45°·5 in Portsmouth, to 42°·7 in Norwich; the lowest recorded night temperature was 27°·5 in Leicester, and the highest day temperature in the shade was 65°·3 in Salford. Rain fell in all the towns furnishing returns, except Newcastle-upon-Tyne; the amount ranged from '06 of an inch in

Portsmouth, to '38 of an inch in Manchester.

In Centigrade degrees the mean temperature of the air last week at Greenwich was  $7^{\circ} \cdot 61$ ; the highest day temperature in the shade was  $18^{\circ} \cdot 22$ ; the lowest night temperature was  $-1^{\circ} \cdot 06$ ; the highest temperature in the sun was  $43^{\circ} \cdot 33$ . The mean temperature of the week on an average of 50 years was  $4^{\circ} \cdot 50$ , or  $3^{\circ} \cdot 11$  below the temperature of last week. The wind blew at the rate of 21 kilometres an hour, and the rain-fall was  $\cdot 28$  of a centimetre,

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 192,184 cubic metres, and at Barking 236,895 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons. -

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the NINTH Week of Ten previous Years.

Total Births Males Females	1861 2028 1020 1008	1862 1905 965 940	1863 2240 1163 1077	1864 2139 1120 1019	1865 2242 1125 1117	1866 2087 1026 1061	1867 2215 1126 1089	1868 2324 1206 1118	1869 2307 1144 1163	1870 2259 1157 1102	Average of 10 Weeks 2174.6 1105.2 1069.4	2410 1220 1190
Total Deaths  Males . Females .	1238	1322	1440	1766	1482	1545	1295	1266	1487	1673	1451·4	1591
	643	679	733	910	763	762	670	668	740	811	787·9	819
	595	643	707	856	719	783	625	598	747	862	713·5	772

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70, after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

				,	-	1			_	-			
1	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Jan.	Jan. 14.	Jan. 21.	Jan. 28.	Feb.	Feb. 11.	Feb. 18.	Feb. 25.	Mar.
Total Deaths	1586	1737	1377	1760	1828	1896	1846	1632	1683	1749	1625	1633	1591
Deaths under 5 years of age - Deaths 5-20	647 159	688 154	540 143	672 150	651 142	660 135	650 156	601 142	603 139	640 166	642 142	627 163	643 174
Deaths 20—40 Deaths 40—60 Deaths 60—80	219 239 280	253 278 301	205 215 218	250 294 322	242 330 391	241 355 412	271 294 377	224 282 318	284 285 306	260 281 333	247 265 280	246 263 267	237 259 215
Deaths at 80 years & upwards	42	63	56	72	72	93	98	65	66	69	49	67	63
Deaths from Small-pox , Measles , Scarlet Fever	61 27 116	27 135	82 25 104	110 29 110	79 34 112	135 27 77	188 17 68	157 12 66	196 12* 49	211 9 46	218 11 48	227 15 47	213 15 53
" Diphtheria " Whooping-cough " Typhus fever	32 12	9 44 9	33 16	49 10	36 10	9 38 10	51 5	8 47 10	6 43 11	10 51 13	58 11	2 ' 54 12	11 53 14
,, ,, Enteric (or Ty-) phoid) fever -	26	23	30	21	18	17	12	15	15	14	15	15	17
,, SimpleContafever ,, Diarrhαa - ,, Simple Cholera -	16 13 1	15 12	12 9 —	13 6 —	.9 19	11 17	17 17 —	5 10 —	13 14	16 14 —	9	7 14 1	13 13
,, Phthisis Bronchitis Pneumonia	167 244 101	178 249 114	144 174 75	185 265 105	186 319 93	178 377 91	155 309 89	162 250 84	174 248 90	175 223 83	166 194 66	138 177 75	149 174 92
Mean Temperature of the Air	32.5	74	57 33.0	25.7	102 31·1	33.0	93	71 32·4	82 0 34·9	75	42.7	.94 43·8	63 45.7
Mean Temperature of the Water of the Thames	-	_	_	torprose :		-	-	_	34.6	40.1	40. 5.	42.9	43.8
Humidity of the Air	89	92	78	85	84	87	93	84	91	82	87	81	79
Rain-fall in inches	0.84	1.70	0.17	0.42	0:07	0:08	1.32	0.54	0.19	0.72	0.02	0.06	0.11

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Fsq., F.M.S., Portsmouth; C.M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., F.M.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Did Trafford, Manchester; D. Doncaster, Esq., J. W.S., Sheffield; J. McLapdsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne,

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 4th day of March 1871, in the following large Towns.

		4th day	or Marc	n 1871, m	the lonow	ing tar	ge Tov	A TAID.			
CITIES	Area	Estimated Population	Persons	Births registered	DEATHS registered		TURE OF	THE AIR.	THE AIR.	RAIN	FAL
AND BOROUGHS.	in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 4th Mar. 1871.	during the Week ending 4th Mar. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Ce
Total of 20 Towns in the United Kingdom -	213,281	7,336,961	34.4	5554	3747	65.3	27.5	44.7	7.06	0:26	0.
LONDON	77,997	3,258,469	41.8	2410	1591	64.8	30.1	45.7	7.61	0.11	0
PORTSMOUTH	9,513	125,464	13.2	; 86	35	59:2	32.2	45.5	7.50	0.06	0
Norwich	7,472	81,787	10.9	56	32	59.5	29.0	42.7	5.95	0.10	0
BRISTOL	4,688	173,364	37.0	1126	83	+	. —	-	-		1 6
WOLVERHAMPTON -	3,387	74,488	22.0	71	31	62.4	81.8	44.4	6.89	0.21	0
BIRMINGHAM	7,831	378,574	48.3	309	153	64.2	29.6	45.1	7.28	0.28	0
LEICESTER	3,200	101,367	31.7	68	39	63.7	27.5	44.1	6.73	0.19	0
NOTTINGHAM	1,996	90,480	45.3	64	39	63.7	29.1	44.0	6.67	0.22	0
LIVERPOOL	5,108	526,225	103.0	420	363	62.0	34.3	45.1	7.28	0.33	0
MANCHESTER	4,486	379,140	84.5	309	183	65.2	32.5	45°2	7:33	0.38	0
SALFORD	5,172	123,851	23.9	115	60	65.3	33.4	45.0	7.22	0.35	0
BRADFORD .	6,590	148,030	22.5	107	58	63.0	30.6	43.0	6.11	0.53	0
LEEDS	21,572	266,108	12'3	183	110	63.0	30.0	42.9	6.06	0.35	0
SHEFFIELD	22,830	255,247	11.2	189	119	63.0	31.0	44.0	6.67	0.58	0
HULL	3,562	135,195	38.0	106	49		-	-		design	à
SUNDERLAND	3,306	103,037	31.2	118	62		decor		-	-	
NEWCASTLE-ON-TYNE	5,336	136,293	25.5	125	82	58.0	34.0	43.2	6:22	0.00	0
EDINBURGH	4,427	179,944	40.6	130	105	59:7	35*0	46.9	8.28	0.30	0
GLASGOW	5,063	477,627	94.3	408	344	60.6	35.0	44.8	7.11	0.49	1
DUBLIN	9,745	322,321	33:1	154	209	62-7	37.0	48.5	9.16	0.55	1
PARIS	19,279	1,889,842	98				any de	_			
BERLIN	15,451	800,000	- 52	<u>.</u>			-			-	
VIENNA	9,212	622,087	68	named .			- Garden			-	

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probe available before the middle of the year, and will then be substituted for these estimates.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the W ending Saturday the 4th day of March 1871.

		77.78	Datarda	, 0110 1		-							
	ANNUAL RATE		-		Th	e DEAT	rus reg	istered	in the	Week i	nelude		
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhœa.	Violence.	Inquest Cases.
Total of 17 Towns -	25	3089	747	552	312	46	96	14	102	87	30	105	167
London - + - +	25	1591	343	278	213	15	53	11	53	36	13	46	77
PORTSMOUTH	15	35	9	. 9	-	-	-	_	1	3		1	4
Norwich	20	32	7	10	- 1		-	- 1	i	-	-	1	1
Bristol	25	83	2,6	20	-	1	3	7	1	2	1	2	4
WOLVERHAMPTON	22	31	12	2	-	_			-		_	1	2
BIRMINGHAM	21	153	36	37		4	1	2	n	5	2	6	13
LEICESTER	20	39	16	6	-	pare.	5	1	-	-	- 2	i	2
NOTTINGHAM	22	89	12	6	27	-	1	; <del></del>	1	2			. 2
LIVERPOOL	36	363	95	64	89	8	8		12	14	ą	-14	17
MANCHESTER	25	183	47	29	12.	11	4	_	6	7	4	. 9	11
SALFORD	25	60	16	10	2	_	1	_	1		2	î	2
BRADFORD	20	58	16	11	-	-	3	1	_	1	į	2	3
LEEDS	22	110	21	23		4	6	- 800	4	5	_	4	6
SHEFFIELD	24	119	40	23	-	2	4	_	6	4	2	2	4
HULL	19	49	15	7	2	-	. 8	-		2	2	. 2	2
SUNDERLAND	31	62	16	9	ĩ		3	-	4	2		4	4
NEWCASTLE-ON-TYNE -	31	82	20	8	5	1	2	date	i	4	-	9	13
													-
DUBLIN	34	209	42	55			6	-	12	-	3	8	5

TABLE 5 .- DEATHS in LONDON Registered in the NINTH Week of the Year 1871.

·		11115		101				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	d in the Ninin Week		1.001	10,					
	ages of the oth Week years 1861-70.	Sa	In t	he V ay, I	Veek Marc	endi h 4, l	ng .871.1			Averages of the Ninth Week the 10 years 1861-70,	S	In t	he V	Veek Mar	endi ch 4,	ng 1871.	
	of th Week		Dea	ths o	f Per	sons	of		·	s of th Week rs 186		Dea	ths o	f Per	rsons	of	
CAUSES OF DEATH:	Averages Ninth V	ALL		der	40.	60.	80.	and	CAUSES OF DEATH.	erage finth 10 yea	ALL	Un	der	40.	60.	80.	and
	Avera Nin in the 10	AGES. Mean	2	0	under 40	under	under	ards.		Aver Nir in the 10	AGES. Mean	20	).	under 40	under	under	ars an
Mean Temperature ÷	41.2	Tem.	0-5.	5-20.	20 and	40 and	60 and under	80 Years upwards.	Mean Temperature -	41.5	Tem.	0-6.	5-20.	20 and	40 and	60 and	80 Years upwards.
ALL CAUSES	1450.4	1591		174	237	259			9. Stricture of Intestines -	1.0	2		-	1	1	-	_
SPECIFIED CAUSES	1440.0	1586		174	237	258		62	10. Fistula 11. Stomach Disease, &c 12. Pancreas Disease, &c	6.3	5		1	2	1	1	
I. ZYMOTIC DISEASES. ORDER 1.									13. Hepatitis	3°4 4°0 17°7	1 5 18	3	1	- 4	1 1 9	1 5	
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	17.6 24.2	218 15	73 11	69	56	13	2 -		16. Spleen Disease, &c ORDER 5.	-4	1		_	1		-	
4. Diphtheria 5. Quinsy	47·3 9·5 1·2	53 11 -	38 8 -	15 2 -	1		1 1 1	11.1	1. Nephritis	1'4	1 -	1 - 1		-	-	1 12	Ē
6. Croup 7. Whooping-cough 8. Typhus	17.7	12 53 14	10 51 1.	2 2	- 8	-	- 1		3. Bright's Disease (Nephria) 4. Diabetes	12.3 1.5 1.0	11 2 -	É	1	-	4 -	5 1 -	-
- Enteric or Typhoid Fever - Simple continued Fever - 9. Erysipelas	50°4	17	1	5	3	5 3 1	1 - 2	ī - -	6. Cystitis 7. Kidney Disease, &c	7:0	13		ī	3	4	5	=
10. Puerperal Fever (Metria) 11. Carbuncle	5,2 1,1 1,6	5 3 4 2		1 1 1	4		1	1	ORDER 6. 1. Ovarian Dropsy 2. Uterus Disease, &c	.7 3·4	- 4		- 1	-	- 8	-	-
13. Dysentery	15:0	13 13	10 1		111	2	3		ORDER 7.  1. Synovitis (Arthritis) -	.2			_	-	-	-	-
16. Ague	1.1 1.3 8.7	10		- 2	- 2	- 6	1 1 1	=	2. Joint Disease, &c ORDER 8.	3.9	9	3	3	1	1	1	-
19. Other Zymotic Diseases - ORDER 2.	8.7		-			_		-	1. Phlegmon	1.5 1.4 1.3	3 - 2	1 -	2 -	- 1	-	- 1	-
1. Syphilis	6.7 1.8 	6 2 -	6 -	-	-	]	,-	1	IV. DEVELOPMENTAL DISEASES.								
ORDER 3.	1.0	1	-		1				ORDER 1.	19.2	16	16	_	_	_	_	-
2. Want of Breast-milk - 3. Purpura and Scurvy - 4. Alco- ( a Del. Tremens -	7.1	5 5 1	5		4	-	1	-	2. Cyanosis 3. Spina Biffda 4. Other Malformations -	2.8 .9 2.0	2 5	- 2 5			-		-
ORDER 4.	1.7	-		-	1	-		-	5. Teething	21.0	13	13	-	_		-	-
1. Thrush	2:2	2	2	-	=	-	1		1. Paramenia 2. Childbirth (see Puerperal)	4.9	5	~	1	3	1	-	į
II. CONSTITUTIONAL DIS. ORDER 1.				-			H		Fever) { ORDER 3.	58*8	04					00	38
1. Gout	1.4 14.5 28.4	1 12 33	3	-	1 4	1 3 19	5 9	-	1. Old Age ORDER 4.		64		-			26	36
4. Cancrum Oris (Noma) - 5. Mortification Order 2.	3.6	2	=		7-		î	ī	1. Atrophy and Debility - V. VIOLENT DEATHS, &c.	60.2	64	59		_	1	3	-
1. Scrofula	8·2 17·3	16 17	12 16	3	1	- 1	1	-	ORDER 1. (ACCIDENT OF NEGLIGENCE.)								
3. Phthisis 4. Hydrocephalus	162.8	149 32	3 30	19	75	48	4	E	1. Fractures and Contusions	17:0	10	Ē	1	4	2	1 -	2
III. LOCAL DISEASES. ORDER 1. 1. Cephalitis	1440	70					H		3. Burns and Scalds 4. Poison 5. Drowning	9:0 2:1	7 1 5	3 -	-	-	2 1 3	1 -	1 -
2. Apoplexy	14.0 37.0 30.7	19 44 31	13	5	.8	16	1 19 18	2 5	6. Suffocation 7. Otherwise	2.0	13	10	-	3	-	-	i
4. Insanity	1.2 .3 6.4	1 1 4	ī	1	-	ī	1 - 2	-	ORDER 3. (HOMICIDE.)								
7. Convulsions 8. Brain Disease, &c ORDER 2.	57.6	62 15	61	3	1	6	2	-	1. Murder and Manslaughter ORDER 4.	2.3	2	2			-	-	Ŀ
1. Pericarditis	2°6 2°7 62°7	2 3	Ę	1	1	2	-	-	(SUICIDE.)  1. Wounds {Gunshot - Cut, Stab -	•4	_		-	_	_	_	
3. Heart Disease, &c ORDER 3. 1. Laryngitis	10.8	63	1 8	5	11	29	17		2. Poison 3. Drowning	.9 .7 1.0	1 2 1		-	-	1 1 1	1	
2. Bronchitis 3. Pleurisy 4. Pneumonia	198'7 4'3 79'9	174 3 92	70 - 55	2 1 6	1 15	31 1 11	55	$-\frac{7}{1}$	4. Hanging 5. Otherwise	1.7	2 -	-	-	-	1	1 -	
5. Asthma 6. Lung Disease, &c	12.0 14.2	6 25	10	3	5	1 5	5 2	-	ORDER 5. (EXECUTION.)								
ORDER 4.  1 Gastritis	2°0 5°6	3 6 7 2	1	ī	1 2	-	1	1	1. Hanging					_	-		
3. Peritonitis	4·8 2·7 2·5	1	1	1 .	2 -	1	1 -		Violent Deaths (not classed) Sudden Deaths (Cause un-	4.3	2	1	1	_	1	-	
6. Hernia	3·1 3·2 ·7	5 1 2	1	-		2 - 1	2	1	ascertained) Causes not specified or ill-	7.1	3	2	-	-	-	-	1
		- "	, 1														

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

# 74 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

-													du	ring 1	the '	Wee!	k end	ling
I			during	during				The	DEAT	ns rea	gistere	d in t	he W	eek in	clude			
	REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under I Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
ı	LONDON	2,803,989	2410	1591	343	278	213	15	53	11	53	14	17	5	13	46	77	281
	WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	458,125 618,210 383,321 571,158 773,175	386 505 228 529 762	261 381 168 324 457	57 63 32 81 110	53 71 35 39 80	33 65 11 52 52	3 - - 5 7	7 16 5 7 18	3	7 15 4 17 10	2 5 1 3 3	4 1 - 6 6	2 3	3 2 - 5	2 14 9 9 12	7 24 12 19	40 98 31 53 59
The same production of	West Districts.   St. Mary Paddington   WH -   -     St. John Paddington   WH -   -     Kensington Town   WL   -     Brompton   H -     -     St. Peter Hammersmith   -     St. Paul Hammersmith   -     Fulham   WILLL   -     Chelsea South   HH   -     Chelsea North-west   H/W -     Chelsea North-west   H/W -     Chelsea North-west   H/W -     Hanover Square   -     Hanover Square   -     Hanover HH   -     St. John Westminster   HHH     St. James's Square     Golden Square       Berwick-street       Berwick-street       Berwick-street       St. Anne Soho HH	39015 36769 51910 18198 51910 18198 91654 19899 21886 19773 12885 55113 87483 30780 10753 18966 10607 17426	49 15 66 12 6 32 21 18 20 18 9 6 34 29 28 3	25 17 37 12 4 13 5 8 5 9 9 2 87 29 31 8 27 6	9 2 10 3 2 2 1 - 2 1 1 9 5 6 1 - 1 2	55 9 11 14 - 2 12 2 10 3 5 12 -	2 - 1 2 - 1 2 9 15	8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	111111111111111111111111111111111111111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25588-11112217-1
	NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square - Rectory Marylebone W H - St. Mary Marylebone H - Christchurch Marylebone - St. John Marylebone - St. John Marylebone - Tottenham-court wH - Christchurch Marylebone - Songers Tottenham-court wH - Cannden Town W - Songers Town - Cannden Town W - Songers Town Songers Town - Songers Town - Songers Town - St. Marylebone S	29952 15090 28692 22493 34913 32540 19106 84997 29871 27808 89099 44317 75442 75442 75443 24265 81481 15458	16 8 12 11 22 21 17 26 18 15 81 15 66 59 72 6 4 17 85 34	19 5 11 15 12 19 25 12 22 21 8 6 25 48 55 2 12 39 23	6 -124 - 1 234315 79 1 - 248	52447 1245-3553 13-2442	1 -1 1 17 		1 - 2 - 5 3 21	THE PETER PETER	1 - 2 - 211 - 1 12 - 22	111111111111111111111111111111111111111	111111111111111111111111111111111111111	Tigni or resilve arries		8 - 1 - 1 2 1 1 - 4	21 - 12 - 13 1 - 33 - 6 1	3 8 1 1 17 10 5 3 2 13 9
	CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH	17392 19483 17201 11618 11071 10346 12207 19903 12947 12012 19152 17259 13079 16200 11504 17800 14778 12931 209907 11750	6 16 4 8 8 7 8 8 8 12 16 6 15 13 13 14 15 4 10 3 6 6 4 1 1 1 4	6 13 8 8 8 3 10 17 6 6 8 7 11 5 4 4 9 11 14 1 - 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 2 8 1 1 2 2 1 1 1 1 1 8 1 6 1 1 1 1	1 4 2 - 1 - 1 7 4 4 / 2 - 4 4 / 2 - 1 1 - 2 2 - 1 1 - 2 2 - 2 1 1 - 2 2 - 2 2 - 2 2 - 2 2 - 2 2 - 2 2 - 2 2 - 2 2 - 2 2 - 2 2 2 - 2 2 2 - 2 2 2 - 2 2 2 - 2 2 2 - 2 2 2 2 - 2 2 2 2 - 2 2 2 2 - 2 2 2 2 2 - 2	1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1	THE THE STATE OF T	1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 - 1 1 2 2 3 3 1 1	77 - 6 - 4 1 2 2 9

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely, W—Workhouse; H—Hospital; L—Lunatic Asylum; w—A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Rospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

Fever, Diphtheria, Whooping-cough, Fever, Diarrhæa, Violence, &c., registered in each Sub-district Saturday, 4th March 1871.

Saturday, 4th March 1871.																	
		during	during				The D	EATHS	s regis	tered	in the	Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	Port- Lation, 1861.	Total BIRTHS du	Total DEATHS duthe Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhoa.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.																	
Holywe'l Shoreditch $-$	17313 19188 26516 25777 23260 17310	7 9 21 25 22 18	2 16 16 20 17 7	4 3 5 4	2283	7 6 2 6 8	111411		1	1 1 2 -	- 1	ī ī -	111111	111111	111111		54 8
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green	26298 31789 25528 21486	25 32 24 21	16 15 12 9	3 6 3 2	2 -	6 5 3	1	1 - 2	1 1/4 1	NO	- - 1	1	1111	1111	1111	1111	1 -
Artillery Whitechapel	6557 15700 15892 12122 8062 11166 9071	10 10 17 5 8 7	2 4 15 10 9 4 5	1 2 5 - 1 1	1 2 1 2 -	1 3 1	11111	1110111	111111	7 1 100 1 7 1	111()111	1,11111	1111111	111111	1141811	1 3 1	11 9 -
St. Mary St George East St. Paul St. George East St. John St. George East W	18181 21015 9695	14 16 13	8 7 7	2 2 2	1 - 2	1	F 1 1		-	- 1		-	111	4 1 1	111	1	- 5
Shadwell W Rateliff WH Limehouse W	12537 16874 27161	7 9 24	4 6 8	1 - 2	-	1 -1	17.1	2-1-1	-	-	=	- 1 -	î eu	- 1 -	î	1 3	
Mile End Old Town West Mile End Old Town East WwH	33747 89317	30 46	15 25	5 6	1 8	1 2	-	- 1	ī .	1	1-	-	-	-	1 4	1 4	- 5
Bow WwHLt	35667 43529	59 46	41 24	12 8	9	1	·1 2	2	1	5	1	1		-	-	-	7 3
South Districts.																	
Christehnreh Southwark W St. Saviour Southwark H - Kent-road Borough-road WH London-road L - Trinity Newington St. Peter Walworth W - St. Mary Newington H -	17069 19101 19652 16668 19190 22675 44463 15082	16 9 12 20 11 25 46 10	15 8 10 12 9 12 25 15	4 4 5 3 5 2 3 2	6 1 1 - 9 4	2 6 - 4 - 4 1		1	1	1 1 1 1	111111111	1111111		1	1 - 1 - 2	2 - 2 - 2 - 2	5 - 2 - 8 7
St. Olave Southwark H St. John Horsleydown W	7663 11898 16696 16505 25154 24502	3 9 9 14 50 17	9 · 9 · 8 · 10 · 20 · 12	1 2 5 10 3	1 8 2 2 4	- 2 1 2 2	1	111111	111111	1	ī -	11111	111111	11111	1 1 1	1 1 1	9 - 2
Waterleo-road lat H Waterleo-road 2nd H	15269 18640 19839 29542 80785 20440 20067 7462	15 20 24 35 30 25 25	12 6 13 15 22 13 14 8	4 8 2 6 6 1 2	1 8 1	1 1 - 3 1 5	2 1	1 3 2		1		- - - 8 - - 1	1 - 1 - 1 2 - 1	1111111	- 1 - -	1 1 1 -	1 1 5 - 5 -
Clapham HL	20894 19600 13346 6481 10082	17 49 8 4 11	13 28 8 7 4	3 9 1 2 1	4 3 3 3 3	4 3 -	1.	- - -	11111	11111	11111	1	1111	11111	2 -	2	1 5 2 -
Dulwich - Camberwell WL†L†	1723 21297 28135 20833	28 24 22	19 12 5	2 2 1	- 5 3 -	2 1	1	2 1	1111	2	1111	-	111	1111	- - 1	- - 1	3 -
St. Paul Deptford	37834 8139 21696 18306	44 6 18 17	16 - 9 15	2 -	4 - 3 5	1	1411	1	: - 8	1 -	1111	-	-	- 1	-	1111	- 9
Eltham - Lee Lewisham Village W Sydenham	3009 11003 7372 10595	13 9 13	- 8 4 8	8	2 1	1111	1	1 1 -		1111	1111	1111	1111	1	1111	1111	11111
Charlton H Woolwich Dockyard	9276 22919 18776 } 24502 {	1 11 12 12 12 7	7 5 4 1 7	1 1 1 1 2	- - - 1	- 1 1	11011	2 -	1	- - 1		11111	1111	riii.	1111	11111	8 -

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - , , Tottenham-court sub-district.

London City - , , Islington East.

Do. do. - , , Hackney sub-district.

Bow sub-district.

Stepney - , , Bow sub-district.

Bow sub-district.

Bow sub-district.

Stepney - , , Bow sub-district.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 4th March, 1871.

					1.	· vie	, e.		Meteor	ologi	cal	Obs	ervations.	
					euozo	;			:::	:	97		those A.M.; a dry mean the flower that the flower daily y and y and y and y and see the s well. et he ed by erage serva.	wer," od as ering th of
	RAIN.	Collected	in a Gauge	whose	surface is 5 in. above the ground.	Inches 0.00	0.03	00.0	0000	Sum 0.11	25		we the mean in the vith those in at 9h. A.M.; it did, it did in the mean did in the mean daily the dry and come and ally the results include the P.M. as well the as well seemined by the mean daily the as well the as well a	nd – "100 nderstoc nderstoc lf-regist
			Robinson's.	Amount of	Movement of Air each day.	Miles: 264	619	286	121 129 260	Sum 2183	24		idered to be 159 feet above the mean considered to be coincident with those realizered to be coincident with those realizers of the baronneter, the dry these these those are converted into mean d by James Glaisher, F.R.S., from five f. Twans, part I. 1845. The mean daily hose mean daily values of the dry and nose mean daily values of the dry and rabbes. Fourth edition. The results most short is the raw, as well intun thermometers, as determined by mis being applied to each. The average short from the thermometers, as determined by mis being applied to each. The average short from the thermometers,	igher," as to be u use of se
		ters.	4		Mean of 24 Obs.	lbs. 0.3	2.0	0.3	0.0	:	53		be 159 1 to be vations of the second of the part 1, 1 daily fourth lited in h. P. M. I. h.	read "hions are
١		emome		onsdas	Least.	lbs. 0.0	0.0	0.0	0.0	:	22		eed to sideree to observable t	servat
ı	WIND.	rom An		Pressure on square foot.	Great- est.	lbs. 30·0	30.0	12.9	0.0	:	21		inimulations laise in the result of the resu	nd tha ical ob ght. ascert
		As deduced from Anemometers.	- Osler's,		P.M.	S. SSW. &		E. by S.	S. & SE. SSE. & SE. SSW.	ble.	20	NOTES.	barometer is considered to be 159 feet above the mean the barometer are considered to be coincident with those had above the area of the parameter. The observations are taken at 91. A.M.; The means of the readings of the barometer, the dry meter observed at these times, are converted into mean corrections deduced by James Glaisher, F.R.S., from free comber 31.—28e Phil. Travas, part 1, 1848. The mean daily are deduced from those mean daily values of the dry and early early expendenced from those mean daily values of the dry and early early and of the mean of the proper corrections being applied in column 7, include the ter, read at 91. A.M.; noon; 31. P.M.; and 91. P.M.; as well be proper corrections being applied to each. The average the proper corrections being applied to each. The average mean of the proper corrections being applied to each. The average of the proper corrections being applied to each.	ocrne in mi meteorolog it to midni Thames is
	r :			General Direction.	A.M.		SW. & W.	ESE.	Calm Calm SSE.	Variable.	19		sts sts	Leading the ITth column it will be borne in mind that + is read "figilier" and - 'Convey". The reading the ITth column it will be borne in mind that + is read "figilier" and - 'Convey" than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight.  The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of
	Degree	of Hu- midity,	Satura-	being	sented by 100.	83	77 87 87	20	882 74	64	18		readings lint glass 9h. P.M. wet there plication mg 1845, 1 by Glairston the property of the p	column results y, or fro the wat
[19]	A	1					0 1	6	120	9			The ci The ety's find the and the apply send the apply send of the circular temperature of the circular the air the circular the air the circular the air the circular the air the circular	e 17th From The vivil da ure of uspen
er Royo	- M	Between	perature of	the day and mean tem-	the same day on an average of 60 years, *	+ 5.1	+11.1	-63	+ 3.0 + 6.5 +11.7	+ 5.6	17		The height of the eister devel of the sea. The read of the Royal Society silint, noon; Sh. P. M.; and 9h. thermometer, and the well daily values by the applicate greary observations ending dew point and degree of his wet bulb thermometers by the mean daily temperature observations of the dry the observations of the dry the the self-registering thermometers the self-registering thermometers by the mean daily temperature of the dry the the self-registering thermometers as the results deduced from the self-registering thermometers.	the tending the the tending the than the average, applying to the civillating the temperatur thermometers, su
ronom	DIFFERENCE	Point	ire	ture,	Least.	1.2	2.5	20.5	1.7	1.4	16		The he el of the Rc on; 3 symom ily valuars, ob w poin t bulb t bulb t bulb the reservation the reservation of the reservation	ns cak In rea an the plying Phe te ermon
he Ast	DIF	Between Dew Point	Temperature	Air Temperature	Great-	9.8	11.2	13.9	14.8 17.6 19.3	13.6	15			th, th
ce of t		Between	le.I.	Air T	Mean daily value.	0.4	6.0	8.9	5.1 4.9 8.0	0.9	14		out, Very and occa-	
Under the Superintendence of the Astronomer Royal.	1		water or	ich, by	Lowest,	41.8	41.0	42.8	39.4 41.2 42.0	41.7	13	69	t throughor morning a	4
Super			the Tha	Greenwich, by self-registering	Highest. Lowest,	44.4	44.8	4.14	45.9 45.8 45.9	45.9	12	PHER	evalent t	d variabl
nder th	rers.	Lowest	Grass, as	a self-		35.0	44.3	26.2	23.2	30.2	11	ATMOSPHERE.	f cloud were prevalent throu Rain fell during the mornin Rain fell during the afternoon.	mount of cloud variable.  Hoar frost in morning
2]	THERMOMETERS.	Highest in	shown by	tering Thermo-	build in vacuo, placed on the Grass.	91.9	101.8	1.26	105·1 110·0 109·0	98.1	10	SKY AND	L 0	<b>1</b> 1
ı	GS OF T		Point,	Mean	daily by	40.1	44.1	28.4	38°1 41°8 43°8	39.7	6	SI	amounts reloudy. night.	ne day. The
ı	READING		Ì	Mean	daily value.	44.9	51.0	37.3	43.2	45.7	00		Variable ( Generally sionally at n	A very fine Cloudless.
ı	21			Range	in day.	15.5	9.1	11.3	27.7 34.7 24.9	19.9	1		Va fine. Gei siona Gei	Clo A
ı		Den	12		Low-	37.2	47.9	33.4	30·1 30·1 39·0	36.4	9		ernoon ension, ension, ension, enot	1, was
				-	High-	52.7 37.2	57.0	44.7	57.8 64.8 63.9	56.3	2	NITY.	the aft iable t	tension
ı	BARO-	Mean	reading		0	in.	29.616	30-304		29.959	1 4	ELECTRICITY	itive in with var	vith weak
	MOON.		Phases		Moon.	in. Apogee, 29.835	FirstQr. 29.616	Greatest 30.304 Dec. N.	:::	:	00	EL	Weak positive in the afternoon and st night. Positive, with variable tension, was shown.  The insulating lamp was not burning, having been blown out.	Positive, with weak tension, was generally shown.
				DAY.		r.   26	28	7	01004	1:	nns.	-	26 8u 8u 8u Au	H 63 6
			1871.	MONTH AND DAY.		FEBRUARY.	MONDAY .	MARCH.	THURSDAY. FRIDAY.	MEANS	No. of Columns.	DATE.	SUNDAY . SUNDAY . TUESDAY . MARCE.	WEDNESDAY
			/	-		1 12	45	-	- 4 2	1	12		1 0 A E	5 6 1

about 2 feet below the surface. The readings of these instruments are registered under the superintendence of the resident Inspector on board the ship, by permission of Lieut.-Col. Henderson, R.E., C.B., Commissioner of Metropolian Police.

The reading of the barometer decreased from 30°11 in. at the beginning of the week to 29°39 in. by 90. A.M. on the 27th of February; increased to 30°35 in. by noon on the 1st of March; decreased to 29°80 in. by 30, R.M. on the 4th; and was 29°32 in. by the end of the LONDON: Printed by GEORGE B. EXEX and WILLIAM SPOTITSWOODE, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Office.

Dense fog in early morning, also hoar frost. A cloudless day.

Generally cloudless. A very fine day.

Positive, with variable tension, was prevalent throughout the day.

SATURDAY

FRIDAY

#### WEEKLY RETURN

OF

# BIRTHS AND DEATHS IN LONDON

# AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 10. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, MARCH 11. [Price 1d.

General Register Office, Somerset House, 13th March 1871.

During the week ending Saturday the 11th instant, 5370 births and 3740 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality in the week was at the rate of

27 deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 26 per 1000; Portsmouth 15, Norwich 26, Bristol 24, Wolverhampton 14, Birmingham 24, Leicester 29, Nottingham 20, Liverpool 41, Manchester 27, Salford 25, Bradford 24, Leeds 24, Sheffield 20, Hull 24, Sunderland 26, and Newcastle-upon-Tyne 21. The 292 deaths referred to small-pox last week in these towns showed a further decline of 20 upon recent weeks; 194 occurred in London, 89 in Liverpool, 3 in Hull, 2 each in Manchester and Sunderland, and one each in Portsmouth and Bristol. The annual death-rate from small-pox was equal to 3 1 per 1000 last week in London, and to 8 9 in Liverpool.

In Edinburgh the annual rate of mortality from all causes last week was 23 per

1000 persons living, in Glasgow 35 per 1000, and in Dublin 28.

It is a great gratification to be able to resume, through the favour of Dr. Jules Worms, the able "Inspector of the Medical Service," returns showing the state of health in Paris. The death-rate in that city, hitherto so high among the civil population, is happily declining; it is still at the annual rate of 68 per 1000. Very difficult it is in London to imagine how much suffering these stern figures express. No city in Europe has experienced anything like the mortality of the besieged capital of France during the present century; yet Paris is naturally a healthy place, and will it may be hoped soon recover its serenity and salubrity, now the storm of war is over. Of the total (2993) deaths in Paris during the week ending last Friday, March 10th, 360 were in the army. Small-pox is subsiding (85); bronchitis (379), pneumonia (267), diarrhea (142), dysentery (60), and enteric fever (258), are the prevailing maladies.

It is now 34 weeks since the Weekly Returns from Berlin were discontinued on

It is now 34 weeks since the Weekly Returns from Berlin were discontinued on account of the war. In Brussels the death-rate in the week ending 4th instant was 41 per 1000; the fatal cases of small-pox were 40, against 41 and 40 in the two previous weeks. In the City of Bombay the deaths registered during the week ending 14th ultimo were 322 (exclusive of still-born), and the mortality was at the annual rate of 21 per 1000. In the City of Madras 272 deaths were registered in the week ending 27th January, showing an annual death-rate equal to 33 per 1000 of the population. In the City of New York the deaths registered in the week ending 18th February were 504, and the equivalent annual rate of mortality

was 28 per 1000.

In London 2261 births, and 1601 deaths, were registered last week. After making due allowance for increase of population, the births were 110, and the deaths 41, below the average numbers in the corresponding week of the ten

previous years.

Zymotic diseases caused 445 deaths, including 194 from small-pox, 14 from measles, 54 from scarlet fever, 9 from diphtheria, 67 from whooping-cough, 27 from fever (of which 5 were certified as typhus, 15 as enteric or typhoid, and 7 as simple continued fever), and 15 from diarrhæa; thus to the seven principal diseases of

[10.]

this class 380 deaths were referred last week, against 393 and 394 in the two preceding weeks. The deaths from whooping-cough showed a further increase upon recent weeks.

The fatal cases of small-pox in London, which in the two previous weeks had been 227 and 213, further declined to 194 last week. In nine permanent and temporary hospitals for this disease, 53 deaths were recorded last week. After distributing, so far as is practicable, these deaths in hospital among the districts from which the patients were admitted, it appears that 24 deaths from small-pox last week belonged to the West group of Districts, 54 to the North, 19 to the Central, 42 to the East, and 55 to the South. The fatal cases showed a considerable decline in the West and East groups of districts, while those in the North Districts had increased, especially in St. Paneras and Islington. Of the total deaths from small-pox in London last week, 96 were returned as "unvaccinated," 74 as "vaccinated," one as "innoculated," and 23 were "not stated."

Eight fatal accidents caused by horses or vehicles in the streets were returned last week, making a total of 38 in the first ten weeks of this year, against 35 in the corresponding period of last year. Of the 8 fatal cases last week, 4 were of children, and one of an elderly person, run over in the streets, and 3 of carmen or others who fell victims to the dangers of their occupation.

In the large Public Institutions of the Metropolis 265 deaths were registered last week, showing a proportion of 16.6 per cent. of the total deaths; of these 132

occurred in Workhouses, and 125 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29·79 in.; the highest was 30·21 in. on Thursday morning, and the lowest was 29·42 in. on Monday afternoon. The mean temperature of the air was 46°·3, or 6°·0 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 57°·2 on Saturday; the lowest night temperature was 33°·7 on Thursday; the entire range of temperature in the week was, therefore, 23°·5. The highest temperature in the sun was 102°·7 on Wednesday. The mean temperature was above the average on every day in the week; on Monday it was 50°·9, and as much as 10°·8 above the average, while the coldest day was Thursday, when the mean was 41·8°, or in excess by 1°·4. The difference between the mean dew-point temperature and air temperature averaged 6°·4. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 45°·2 last week. The mean degree of humidity of the air was 78, complete saturation being represented by 100. The general direction of the wind was S.W., and the horizontal movement of the air amounted to 18 miles per hour. Rain fell on four days of the week to the amount of '47 of an inch, of which nearly half fell between 5 and 6 p.M. on Wednesday afternoon.

The mean temperature of the week in the other large English towns furnishing returns ranged from 44°·1 in Newcastle, to 46°·9 in Portsmouth; the lowest recorded night temperature was 30°·0 in Hull, and the highest day temperature in the shade was 63°·5 in Nottingham. Rain fell in all the towns furnishing returns; the amount measured ranged from '24 of an inch in Portsmouth, to '59

in Birmingham.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 7°·94; the highest day temperature in the shade was 14°·00; the lowest night temperature was 0°·95; the highest temperature in the sun was 39°·28. The mean temperature of the week on an average of 50 years was 4°·61, or 3°·33 below the temperature of last week. The wind blew at the rate of 29 kilometres an hour, and the rain-fall was 1·19 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 211,826 cubic metres, and at Barking 226,209 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

TABLE 1. LONDON .- Births and Deaths Registered LAST WEEK, and in the TENTH Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Average of 10 Weeks.	1871
Males Females .	2072	2027	1832	1962	2226	2272	2153	2269	2240	2498	2155·1	2261
	1066	1016	957	1013	1151	1157	1109	1187	1134	1270	1106·0	1141
	1006	1011	875	949	1075	1115	1044	1082	1106	1228	1049·1	1120
Males Females	1279	1505	1370	1664	1508	1829	1425	1331	1519	1499	1492·9	1601
	622	799	699	852	770	935	734	686	775	770	764·2	835
	657	706	671	812	738	894	691	645	744	729	728·7	766

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 fter raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

					4								
	Dec. 17.	Dec. 24.	Dec. 31.	Jan.	Jan. 14.	Jan. 21.	Jan. 28.	Feb.	Feb. 11.	Feb. 18.	Feb. 25.	Mar.	Mar. 11.
TAL Deaths	1737	1377	1760	1828	1896	1846	1632	1683	1749	1625	1633	1591	1601
aths under 5 years of age -	.688 154	540 143	672 150	651 142	660 135	650 156	601 142	603 139	640 166	642 142	627 163	643 174	652 162
eaths 20—40	253 278 301	205 215 218	250 294 322	242 330 391	241 355 412	271 294 377	224 282 318	284 285 306	260 281 333	247 265 280	246 263 267	237 259 215	244 242 238
eaths at 80 years & upwards	63	56	72	72	93	98	65	66	69	49	67	63	6.3
eaths from Smallpox ,, Measles , Scarlet Fever -	44 27 135	82 25 104	110 29 110	79 34 112	135 27 77	188 17 68	153 12 65	196 12 49	211 9 46	218 11 48	227 15 47	213 15 53	194 14 54
" Diphtheria - Whooping-cough	9 44 9	6 33 16	8 49 10	36 10	9 38 10	6 51 5	47 10	6 43 11	10 51 13	58 11	54 12	11 53 14	9 67 5
", Enteric (or Ty-) phoid) fever - Simple Contd fever	23	30	21	18	17	12	14 5	15 13	14 16	15	15 7	17. -5	15 - 7
", Diarrhœa Simple Cholera -	12	9	6	19.	17	17	10	14	14	14	14 1 138	13	15
,, Phthisis Bronchitis Pneumonia -	173 249 114	144 174 75	185 265 105	186 319 93	178 377 91	155 309 89	162 250 84	174 248 90 82	175 223 83 75	166 194 66 89	177 75 94	174 92 63	176 89 59
, Heart Disease - ean Temperature of the Air	74 0 42·8	57 33.0	88 25.7	102 31·1	33.0	93 37·1	71 32.4	34.9	41.6	42.7	43.8	45.7	46.3
lean Temperature of the Water of the Thames			-			_	_	34.6	40.1	40.5	42.9	43.8	45.2
umidity of the Air ain-fall in inches	92	78 0·17	85 0·42	0.07	87 0·08	93 1·32	84	91	82. 0·72	87 0·02	0.06	79 0·11	78 0·47

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase ince 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, ince the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it aving been represented to the Registrar General by the municipal authorities that the rate of increase in those lowns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of machitants unreliable. nhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Diservatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.;—W. C. Ellis, Esq., F.M.S., Portsmouth; J. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Elmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Scless, near Manchester; G. V. Vernon, Esq., F.R.A.S., E.M.S., Cid Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. MoLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered and METEOROLOGY during the Week ending Saturday, the 11th day of March 1871, in the following large Towns.

		IIII day	n Marc	n 1871, m	the lonow.	ing rarg	ge JOW	NS.		
CITIES	Area	Estimated Population	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE	THE AIR.	THE AIR.	RAIN F
BOROUGHS.	in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 11th Mar. 1871.	during the Week ending 11th Mar. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.
Total of 20 Towns in the United Kingdom	213,281	7,336,941	34.4	5370	3740	63 5	30.0	45.6	7.58	0.20
LONDON	77,997	3,258,469	41.8	2261	1601	57.2	33.7	46'3	7.94	0.47
PORTSMOUTH	9,513	125,464	13.2	77	35	58.2	34.2	46.9	8.28	0.54
Norwich - '	7,472	81,787	10.9	70	40	56.0	32.0	44.9	7.17	0.38
BRISTOL	4,688	173,364	87.0	123	80			1 - 4-4	* (225 C)	" "- I
WOLVERHAMPTON -	3,387	74,438	22.0	66	20	54.8	34.4	45°3	7*39	0,*39
BIRMINGHAM	7.831	378,574	48.3	290	174	62.8	31.5	46°2	7.89	0.59
LEICESTER	3,200	101,367	31.7	69	57	56.7	31.0	45.3	7:39	0.40
NOTTINGHAM	1,996	90,480	45.3	55	85	63.5	35.9	46.3	7.94	0.30
LIVERPOOL	5,108	526,225	103.0	409	414	56.7	37.9	46°2	7.89	0.31
MANCHESTER	4,486	379,140	84.5	285	195	-	_			_
SALFORD	5,172	123,851	23.9	93	59	55.5	32.5	44.5	6.95	0.39
BRADFORD	6,590	148,030	22.5	127	68	61.0	36.6	45.4	7.44	0.21
LEEDS	21,572	266,108	12.3	260	123	62.0	36.0	46.1	7.83	0.52
SHEFFIELD	22,830	255,247	11.2	171	96	56.0	35.2	45.8	7.66	0.26
HULL	3,562	135,195	38.0	76	62	59.0	30.0	44.3	6.84	0.31
SUNDERLAND	3,306	103,037	31.2	129	51		_			_
NEWCASTLE-ON-TYNE	5,336	136,293	25.2	120	56	55.0	37.0	44.1	6.73	0.36
EDINBURGH	4,427	179,944	40.6	113	79	56.7	39.0	46.8	8.22	0.40
GLASGOW	5,063	477,627	94.3	872	319	56.0	35.1	45.4	7.44	1.61
LUBLIN	9,745	322,321	33.1	204	176	56.7	33.0	46°2	7.89	0.25
PARIS	19,279	1,889,842	98	-	2993†			-		
BERLIN	15,451	800,000	52			-		-		-
VIENNA	9,212	622,087	68					-		-
				1						

<sup>•</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probe available before the middle of the year, and will then be substituted for these estimates.

† The facts for Paris relate to the week ending 10th March.

1 220 Marie 102 2 Marie 10200 00 Marie Marie 1020 Marie

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the lending Saturday the 11th day of March 1871.

		chains b											
	ANNUAL				Th	e DEAT	rns reg	istered	in the	Week in	aclude		
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Searlet Fever.	Diplitheria.	Whooping-	Fever.	Diarrhea.	Violence,	Inquest Cases.
Total of 17 Towns -	26	3166	739	591	292	39	99	15	100	78	32	113	200
LONDON	26	1601	342	301	194	14	54	9	67	27	15	58	111
PORTSMOUTH	15	35	7	5	1	_	2	_	-	2	-	1	1
NORWICH	26	40	8	11	- 1	_	5	-	5	1	1	1	2
BRISTOL	24	80	19	15	1	1	1	-	-	2	2	4	4
WOLVERHAMPTON -	14	20	4	3		-	-	-		-	1	1	1
BIRMINGHAM	24	174	47	38	-	4	8	3	7	4	3	8	12
LEICESTER	29	57	13	8	-	-	4	-	1	-	1	1	. 4
NOTTINGHAM	20	35	10	8	- 1	-	-	-	-	-	1	1	1
LIVERPOOL	41	414	109	70	89	6	16	2	9	20	2 -	18	24
MANCHESTER	27	195	47	32	2	8	2	-	2	7	2	5	11
SALFORD	25	59	16	7	-	2	1	1	1	1	-	2	5
BEADFORD	24	68	16	7	-		3	-	-	2	-	6	7
LEEDS	24	123	30	25	-	2	_	-	2	9	2	2	4
SHEFFIELD	20	96	26	13	-	2	4	-	6	2	1	2	5
HULL	24	62	16	13	3	- 1	2	-	-			2	3
SUNDERLAND	26	51	13	14	2	-	2	-		-	-	-	1
NEWCASTLE-ON-TYNE -	21	56	16	21	1-	-	-	-		1	1	1	4
DUBLIN	28	176	21	44	1	8	6	-	. 7	12	4	3	5

# Deaths from different Causes.

TABLE 5 .- DEATHS in LONDON Registered in the TENTH Week of the Year 1871.

TABLE 5.		ins 1	H L	INDI	NOC	ne	gist	cre(	I in the LENTH Week o		ear	101	1.			
	Averages of the Tenth Week a the 10 years 1861-70.	Sa	In t	he W	eek Iarcl	endi h 11,	ng 1871,		*	Averages of the Tenth Week the 10 years 1861-70.	Sa	In the	he Way, I	eek Jare	endi	ng 1871.
	Week		Deat	hs of	Per Age	sons	of			week Week rs 186		Deat	ths of	Per	sons	of
CAUSES OF DEATH.	erage enth	ALL		der	-04	60.	.80.	and	CAUSES OF DEATH.	erage enth	ALL		der.	- 1	60.	80°
	Av T in the	AGES. Mean	2	0.	under	under	60 and under	rds.		Ar T in the 1	Mean	2	0.	under 40.	under	under
	40.3	Tem.	٠٥-	-20.	and	40 and	) and	O Years upwards.		40.3	Tem.	-5.	5-20.	20 and 1	and	60 and 1
Mean Temperature -	~	-	0	70	20		-	<u> </u>	Mean Temperature -		46*3	-0	5	36	40	99 98
ALL CAUSES SPECIFIED CAUSES	1492.9	1601 1593	652 649	162 162	244	242			9. Stricture of Intestines - 10. Fistula 11. Stomach Disease, &c	1.1 .2 6.8	2 5	2	-	-		2 2
I. ZYMOTIC DISEASES.									12. Pancreas Disease, &c 13. Hepatitis 14. Jaundice	3.6	3 5		ī	2 2	1 2	1 1 5
ORDER 1. 1. Small-pox	15.4 29.0	194 14	75 13 26	54	56 1	8	1 -	-	15. Liver Disease, &c 16. Spleen Disease, &c	15:1	16	2 -	-	2	7	5 -
3. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy	43°5 9°5 1°2	54 9 2 14	6	24 8	3 -	1 -		-	ORDER 5  1. Nephritis	·7 ·3	5	1	1	-	3	-
6. Croup	16.2	14 67 5	1 13 64	1 3 3	- 1	-	-	-	3. Bright's Disease (Nephria) 4. Diabetes	9·3 1·5	6		=		2	4
- Entericor Typhoid Fever - Simple continued Fever - 9. Erysipelas	57.0	15 7 10	3 3 2	3 2	3	3 2 6	3 - 2		6. Cystitis 7. Kidney Disease, &c	1.2	1 9	-		- 1	- 3	1 2
10. Puerperal Fever (Metria) 11. Carbunele	2.4	2 -		-	1 -	1 -	-	-	ORDER 6. 1. Ovarian Dropsy	.7	- 5	=	-	-	-	- 2
12. Influenza	2.2 13.3	1 2 15	- 10	-	ī	-1	1 1 3	1	2. Uterus Disease, &c ORDER 7.	5.5	5	-	-	2	1	
15. Simple Cholera	·2 ·2 ·9			-	-	-	-		1. Synovitis (Arthritis) - 2. Joint Disease, &c	3.9	8	ī	3	3	ī	-
18. Rheumatism 19. Other Zymotic Diseases - ORDER 2.	6.8	9	ī	5	2	1 -	ī -	-	ORDER 8.  1. Phlegmon	1.1	4	2 1 3	-	-	2	-
1. Syphilis 2. Stricture of Urethra -	8·9 1·7	7 2	5 ~	-	1 -	1 2	-	-	3. Skin Disease, &c IV. DEVELOPMENTAL	1.7	3	3				-
3. Hydrophobia 4. Glanders ORDER 3.	-1	-	-	_	-	=		-	DISEASES. ORDER 1.							
1. Privation 2. Want of Breast-milk - 3. Purpura and Scurvy -	1:0 8:2	7 5	7	- - 1	- 1	-	- ī	-	1. Premature Birth 2. Cyanosis 3. Spina Bifida	20.8 2.7 8	24 2 1	24 1 1	-	ī	-	-
4. Alco-ja Del. Tremens - holism b Intemperance -	2·1 2·8 2·0	1	=	-	1	-	-	-	4 Other Malformations - 5. Teething	1.7	6 21	6 21	-		=	-
ORDER 4. 1. Thrush	2.8	1	1 .	\- -	~	-	=	-	ORDER 2.	•2	-	-	-	-	-	-
II. CONSTITUTIONAL DIS									2. Childbirth (see Puer-) peral Fever)	4.9	3		-	3	_	
ORDER 1. 1. Gout	2.0	9	-	-	2 7	- 8	3	v -	ORDER 3.  1. Old Age	62.2	67		_	-		32
3. Cancer 4. Cancrum Oris (Noma) - 5. Mortification	27.5 .4 4.3	31 - 5	-	-	7	15	8 - 2	1 - 1	ORDER 4.  1. Atrophy and Debility -	56.8	58	50	1	1	1	5
ORDER 2.	8.3	9	4	2	3	-	-	-	V. VIOLENT DEATHS, &c. ORDER 1.							
2. Tabes Mesenterica 3. Phthisis 4. Hydrocephalus	19 3 184 · 2 33 · 0	17 160 26	16 10 23	10 3	78	54	8 -	-	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions	14:2	20	4	6	4	3	3
III. LOCAL DISEASES. ORDER 1,									2. Wounds	8.9 1.1	5 -	2 -	2	1 1 1		1 -
1. Cephalitis	14'6 37'9	18 50	11	4 3	1	17	1 17	1 1	5. Drowning 6. Suffocation 7. Otherwise	4·1 8·8 1·5	10 3	9 2	1	1	4 -	-
3. Paralysis	25.5	29 8 -	- 3	1	2 2	5 -	21	-	ORDER 3.							
6. Epilepsy – – – – 7. Convulsions – – – 8. Brain Disease, &c. – –	7:7 59:3 18:0	58 15	57 2	- 1	1 -	3	9		(Homicide.)  1. Murder and Manslaughter	2.4	4	2	1	1		-
ORDER 2.  1. Pericarditis 2. Aneurism	1.8	8 7	-	1	- 3	2 3		-	ORDER 4. (SUICIDE.)							
8. Heart Disease, &c ORDER 3.	68.5	59	ī	7	16	13	20	2	1. Wounds { Gunshot - Cut, Stab	1:1	1 2 2	Ē	-	1 1 1	1	1 -
1. Laryngitis 2. Bronchitis 3. Pleurisy	12·1 196·7 2·6	18 176 2	17 59	-:	1 10 2	38	56 -	13	3. Drowning	1.6	2 1 1	-	1 -	1	1	-
4. Pneumonia 5. Asthma 6. Lung Disease, &c	83°3 14°6	89 7 15	60	8	6 2 2	11 3 2	2 2 5	2 - 1	ORDER 5. (Execution.)							
ORDER 4.	15.2			-	-	-	-	1	1. Hanging		-	_	-	_	_	-
2. Enteritis	5.6 5.3 2.0	8 3 1	2 -	ī	- - 1	-	1 2 -	-	Violent Deaths (not classed)	*2	1		-			1
4. Ascites — — — — — 5. Ulceration of Intestines — — — — — — 7. Ileus — — — — — — — — — — — — — — — — — — —	4.0 3.7 2.7	1 2 2	- 1	1	1	1 1	ī ī	-	Sudden Deaths (Cause un-) ascertained) Causes not specified or ill-	4.1	3	1	-	1	1	-
8. Intussusception	*8	3	i	ī	-	1	-	H	defined	14.2	5	2	-	1	2	

### Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

BLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

											dui	ring	the	Wee	k en	ding
10 3	during	during	-			The	DEAT	HS re	gistere	d in	the W	eek i	nelud	e		
REGISTRARS' 8UB-DISTRICTS.	Total Birries du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhvid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
LONDON	2,803,989 2261	1601	342	301	194	14	54	9	67	5	15	7	15	58	111	265
WEST DISTRICTS	458,125 325 618,210 524 383,321 227 571,158 504 773,175 681	223 396 157 835 490	57 86 38 75 91	47 66 22 67 99	20 72 9 41 52	1 8 2 2 6	5 12 4 5 28	2 5 1 - 1	17 14 6 17 13	1 3 1	3 2 - 1 9	- 6 -	4 3 1 1 6	9 18 6 4 21	16 30 8 19 38	25 78 35 54 73
WEST DISTRICTS.  3t. Mary Paddington WH	39015 43 386769 20 51910 61 18108 9 5415 3 19104 18 1.5539 20 21634 16 19839 20 21886 14 19773 2 12885 4 55113 29 37483 24 30730 17 10733 1 13966 10 10907 5 17425 9	25 7 37 7 1 8 4 15 11 11 6 1 20 26 19 1 13 7	8 - 11 1 1 4 2 8 4 2 1 - 2 1 1 3 1 - 2 1	10 1 10 2 - 1 - 8 2 2 1 1 6 2 1	1 1 2 2 5 5 1 1 1	THE THE MET THE THE	1		10 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1111111111111111	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1122	1 1 6 1 2 - 1 1 - 2	42 1 23 1 5 1 3 1 5 1 3 1 5 1 3 1 5 1 5 1 5 1
NORTH DISTRICTS.  All Souls Marylebone HH — Carendish Square — Rectory Marylebone WH — St. Mary Marylebone H — Christehurch Marylebone — St. John Marylebone — St. John Marylebone — Hampstead W HH — Gray's Inn Lane H — Gray's Inn Lane H — Somers Town — — Camden Town W — — Kentish Town W — — Kentish Town W — — Stoke Newington East Www — Stoke Newington L — Stamford Hill — West Hackney WwHL — Hackney WwHL — Hackney WwHL — South Hackney L — Hackney L — Hackney L — Stamford Hill — Stamford Hill — South Hackney L — Hackney WwHL — South Hackney L — Stamford Hill — Stamford Hill — Stamford Hill — South Hackney L — Hackney L — South Hackney L — Stamford Hill — South Hackney L — South Hackney L — South Hackney L — Stamford Hill — South Hackney L — South Hackney L — Stamford Hill — South Hackney L — South Hackney L — South Hackney L — Stamford Hill — South Hackney L — Stamford Hill — South Hackney L — South Hackney L — Stamford Hill — South Hackney L — Stamford Hill — South Hackney L — South Hackne	29962 20 1.660 9 22493 28 22493 28 234913 15 32540 13 19106 10 34927 18 29371 17 27808 19 30099 23 23266 19 30099 21 23267 13 78899 69 6668 7 5483 2 24265 23 24265 23	12 16 9 16 12 35 15 9 20 21 14 32 59 56 2 3 11 37	3 -2 5 2 1 4 4 5 7 3 7 11 10 -1 2 7 8	1 6 2 4 2 3 3 2 1 3 3 10 7 11 1 - 1 5 1	2 24 2 1 2 5 - 3 14 7 - 1 2 8 1		1 1 - 1 - 2 3 5 2 2 3	3	1	THE PROPERTY OF THE	1		1	1111001 - 1144-1144-11401	1 3 - 2 1 - 526 - 62 1 - 3 -	2 8 2 1 25 8 2 13 3 3
St. George Bloomsbury St. Glies South WH	17392 13 19483 10 17291 8 11618 10 11071 4 1 10346 4 1 15207 6 1 12912 3 19112 15 19112 15 19112 15 19122 15 19122 15 19122 15 13079 12 14778 21 14778 21 14778 21 14983 5 15895 5 1762 6 11750 5 11750 5 117	11 10 4 3 9 4 6 8 17 12 4 5 7 1 1 9 3 3 4 3 1 5 1 5 1 5 1 2 1 2 1 2 1 2 1 2 1 2 1 2	522 -111 -214 -12 -222 2 -111 -1	11 - 1 3 1 3 2	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			in in intermediation in the	1 1 2 2					901111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 4

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

##-Workhouse;

H-Hospital;

L-Lunatic Asylum;

w-A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 10th March 1871.

Saturday, 10th March 1871.																
		during	during				The l	DEAT	as reg	istere	d in	the W	Zeek i	aclude		
registrars <sup>,</sup> sub-districts.	POPU- LATION, 1861.	Total Birris du the Week.	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.
EAST DISTRICTS.  Holywell Shoreditch	17313 19188 26516 25777 23260 17310	5 9 41 16 15 21	5 14 18 11 12 10	3 3 - 2 1	1 -6 2 3	1 7 4 2 7	11112	1	111111	1 -	1 1 1 1 1	1	21	111111	11111	111111
Hackney-road Green, Bethnal Green WHLt - Church, Bethnal Green Town, Bethnal Green	26298 81789 25528 21486	22 47 16 11	13 29 10 15	6 6 3 5	6 - 2	2 - 1	11,11	1111	7.11	1	- 1 1	1 171 1		1,11,1	1111	8 - 6
Artillery Whitechapel Soitaltields	6557 15700 15392 12122 8062 11166 9971	2 11 17 9 7 6 3	5 2 20 2 9 2 6	1 4 2 2 2	2 -7 -2 1	3 - 1	ī	i		2		1114111		1	1	2 1
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	16 18 1	11 11 9	5 3 1	1 2 4	2		111		2 -	- 1	-	-		1 - 1	1 1
Shadwell W	12537 16874 27161	8 11 17	6 5 14	1 4,	1 2 3	1 1 1.	-	7.7	-	1 2	5			-	-	1
Mile End Old Town West Mile End Old Town East WwH	\$3747 89317	42 51	21 24	3 6	5 6	2 2	-	-	-	3	=	-	2 ~	-	-	ī
Bow WwHLt	35667 43529	49 33	36 15	11 3	2	1 -	ī	3 -	=	4 -	-	-	1 -	-	1	2 -
SOUTH DISTRICTS.  Christohurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	12 7 10 12 6 20 63 11	9 12 15 4 9 13 83 17	2 4 5 1 3 5 6 1	3 2 - 1 - 1 10 3	1 3 5 - 1 1 1 1 1	1	1 1 1 1 1 1	-	1 - 9.		1111111	1411111	111011111	411111110	1 1 2
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The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

<sup>\*\*</sup>E. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - " " Tottenham-court sub-district.

London City - " | Hackney sub-district.

London City - " | Bow sub-district.

\*\*Lunatic Asylums where paupers are admitted.\*\*

\*\*Tottenham-court sub-district.

London City " | Bow sub-district.

Stepney - " " Bow sub-district.

\*\*Lunatic Asylums where paupers are admitted.\*\*

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11					1020	::	:	::	::	:	56		nean	dry nean	daily and sults	well	rage erva- er 31.	d as	uper-Col.	ek to eased same ek.
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The second section of the sect		As deduced from Anemometers	Osler		Р.М.	SSW. & SSE.	S. by W. WSW. & BSW. WSW.	ν.	W. & SW.	V.	50	NOTES.	meter is o	glass standart parometer. The observations are taken at a parameter, the dry remains of the readings of the barometer, the dry remonster, observed at these times not convenient to the dry of a correction of the dry of th	ar 31.—See	or the nun ead at 9h.	oper corrected by Mr. Greenwich,	meteorolog ht to midn Thames is	of the "Secon these insome on board Metropolitis	used from sased to 29; decreased
जामान वाम मान	. ,			General Direction.	A.M.	SSE. & S.	SSW.	SW.	WSW. SW&WSW	NS N	19		The height of the cistern of the barometer is considered to be 159 feet above the mean rel of the sea. The readings of the barometer are considered to be coincident with those	the Kopy a Society into glass Sandard Davomede. The Cosevations are taken at the A.M.; noon; Sh. P.M.; and Sh. P.M. Tho means of the readings of the barometer, the dry carmoneter, and the west the removed of the readings of the barometer, the dry carmoneter and the west fremometer, observed at these times are converted into mean solar and one of the conference of the state of the conference of the state o	any values of the paperson of the processing security of the papers of t	for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M.; as well	as the resulter tetacted from the maximum and minimum the moments, as well-mined by a week mined by a sub-resistening thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory, Greenwich, in the 60 years enting 1885. December 31, in reading the 7th column it will be been some in that is read "bidges" and — "bones".	than the average. The results of all the meteorological observations are to be understood as a papitus to the civil day, or from industries in dustriance by the use of self-registering The temperature of the water of the Thanes is assertained by the use of self-registering	from the side of the "Scorpion" Police Ship, at the depth of about The readings of these instruments are registered under the superant inspector on board the ship, by permission of LieutColomnissioner of Metropolitan Police.	The reading of the barometer increased from 29.82 in, at the beginning of the week to 89.81 in, by 93. A.M. on the 5th; decreased to 29.42 in, by 81. A.M. on the 5th; increased to 80.21 in. by 7th. 30m. A.M. on the 8th; decreased to 29.97 in. by 5th. 30m. P.M. on the same day; increased to 80.91 in. by 9th. P.M. on the 10th; and was 29.83 in. at the end of the week.
فتضف	Degree	of Hu- midity,	Satura- tion	repre-	by 100.	75	78	85	81	78	182		cistern 1e readin	.M.; and ne wet t	ading 18 of hun	dry ther	hermom hir is tha loyal Ob	he resulday, or f	nded fre face. Th resident B., Comn	on the one of the
[Under the Superintendence of the Astronomer Royal.]	<b>3</b>	Between mean tem-	. ret	perature of	of 50 years.*	+ 9.4	++ 5.0	+ 1.4	9.8 +	0.9 +	17		The height of the level of the sea. The	of the Koyal Society's find 9h. A.M.; noon; 3h. P.M.; and the wet the thermometer; and the wet the social state of the social state of the social	ervations er and degree	daily temp ns of the	gistering tree of the sen at the H	than the average. T applying to the civil The temperature	thermometers, suspender 2 feet below the surface. intendence of the resic Henderson, R.E., C.B., C	oding of the by 9h. A.M. h. by 7h. 30 eased to 30
onome	DIFFERENCE	Point	ure		Least.	9.50	3.7	3.1	4.6	2.9	16		he heis	the K A.M.; 1 rmome	rs' observations	mean	self-re self-re operatu is take	n the solving the	rmome et belc endenc nderso	he res 89 in. ] 30 21 i
e Astr	DIE	Between Dew Point Temperature	and Air Temperature	Gwone	est,	12.9	12.0	8.0	10.0	12.1	15		Teve	or 9h.		for				
ce of th		Betwe	Air 7	Mean	daily value.	0.7.	6.4	4.1	5.5	6.4	14				rain fell	night.	, accom	morning. Overcast al rain.	t 2h, P.M	the day.
ntenden	- 8	In the Water of	the Thames at Greenwich, by	istering	Highest, Lowest	43.8	45.0	44.3	42.5	43.8	13	25	П		n. Thin rain	A fine and nearly cloudless night.	Heavy rain, accom-	sh. P.M.	Thin rain fell at about 2h, P.M	Very variable during the
Superi	ı	In the	the Th	self-reg Therm	Highest.	46.9	46.8	46.8	46.4	46.6	12	HERE			ter noon.	d nearly	lent. H	in the	ı rain fe	rariable
ider the	FERS.		Grass, as shown by	register-	Minimum Thermo- meter.	36.9	34.0	28.5	30.9	34.2	=	ATMOSPHERE		ughout	Cloudy after	A fine an	re preval	ckheath nerally s companie		
	THERMOMETERS	Highest in	a self-regis- tering	Thermo	bulb in vacuo, placed on the Grass.	82.7	65.8	87.5	0.96	1.18	10	AND	,	Generally cloudy, but fine throughout.	morning.	Overcast till the afternoon.	Variable amounts of cloud were prevalent, panied with hail, fell between 5h. and 6h. P.M.	pools on Blackheath in the early mornin a. A.M., and generally so after 8b, P.M. Overe: Heavy gale, accompanied with occasional rain.	ly till night; then eloudless.	sbout 3h. A.M.
201	OF	Dew	T Oute	Mean		42.0 43.2	38.8		38.7	39.9	6	SKY		cloudy,	n the	ill the	mounts hail, fell	on po l 10h. A ay. He	night;	
	READINGS			Mean	value,	49.5	45.2	41.8	44.2	46.3	000			nerally	ry fine in ionally.	ercast t	riable a	Thin ice on p Cloudless till 10h. during the day. E	udy till	in fell at rally fine.
7. 5. 5.		Drv.	2	Kange	day.	13.4	11.1		14.0	13.3	7		1		Very			Thin Cloudle during	Cloud	Rain
A COLUMN TO THE PERSON NAMED IN COLU		۵		Low-	98£,	43.4	40.6		38.0	40.4	9			s shown variable	he day. trks, in	tension,	s blown s shown nil were		positive, urrents,	
And the late of	-			High-	est,	56.8	52.7		52.0	53.7	rto.	CITY		tive wa with	uring t	ariable ally.	imp wa		and lyanie cy. We	shown
To the second second	BARO-	Mean	(eot-	and re-	32 degr. Fahren- heit).	in. 29·816 29·454	29.646	29.952	29.963 29.849	29.788	4	ELECTRICITY		positive,	sative d	with voccasion	lating la rong nega time rain		negative s and ga it insides r times.	No electricity was shown.
To make the state of	MOON.		Phases	Jo		::	Full	Equator	Perigee	:	00	E		A little weak negative was shown at night; positive, with variable tension, at other times.	Weak positive during the de Strong negative, with sparks, the evening.	Positive, with variable tension, was shown occasionally.	The insularing lamp was blown out, but strong negative was shown during the time rain and hail were falling.	1	Strong negative and positive, with sparks and galvanic currents, shown about middy. Weak positive at other times.	No elect
-				DAY.		н.	<b>-</b> ∞		110	1 :	nmns		1	70	ه د ته	7	8	6	10	=
			1871.	MONTH AND DAY.		MARCH.	TUESDAY .	THURSDAY	FRIDAY SATURDAY.	MEANS	No. of Columns	DATE.	MARCH.	SUNDAY .	Monday .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAY .	SATURDAY.
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# WEEKLY RETURN

OF.

# BIRTHS AND DEATHS IN LONDON

AND IN NINETEEN OTHER LARGE TOWN'S OF THE UNITED KINGDOM.

By Anthocity of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 11. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, MARCH 18. [Price 1d.

General Register Office, Somerset House, 20th March 1871.

During the week ending Saturday the 18th instant, 5190 births and 3606 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality in the week was at the rate of 26

deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 25 per 1000; Portsmouth 17, Norwich 23, Bristol 24, Wolverhampton 23, Birmingham 21, Leicester 26, Nottingham 20, Liverpool 37, Manchester 24, Salford 19, Bradford 23, Leeds 24, Sheffield 21, Hull 15, Sunderland 27, and Newcastle-upon-Tyne 28. The fatal cases of small-pox in these towns, which in the three previous weeks had been 358, 312, and 292, were 294 last week; of these, 185 occurred in London, 103 in Liverpool, 3 in Newcastle-upon-Tyne, and one each in Portsmouth, Manchester, and Hull. These numbers showed a further decline in London, while they had increased in Liverpool. The annual death-rate from small-pox was equal to 3 per 1000 last week in London, and to 10 in Liverpool. The deaths referred to the other principal zymotic diseases have considerably declined in recent weeks.

In Edinburgh the annual rate of mortality from all causes last week was 30 per

1000 persons living, in Glasgow 31 per 1000, and in Dublin 26.

In Paris during the week ending 17th instant 2177 deaths were reported, exclusive of 399 in the army, showing a further decline of 417 upon previous weeks, and an annual death-rate equal to 56 per 1000 of the enumerated population on the 7th January last; 229 deaths were referred to typhoid fever, and 98 to small-pox. In Vienna the annual rate of mortality during the week ending 11th instant was 45 per 1000. In the City of Bombay the deaths registered during the week ending 21st ultimo were 324 (exclusive of still-born), and the mortality was at the annual rate of 21 per 1000. In the City of Madras 243 deaths were registered in the week ending 3d ultimo, showing an annual death-rate equal to 30 per 1000 of the population. In the City of New York the deaths registered in the week ending February 25th were 491, and the equivalent annual rate of mortality was 28 per 1000.

In London 2297 births and 1576 deaths were registered last week. After making due allowance for increase of population, the births were 65, and the deaths 70, below the average numbers in the corresponding week of the ten

previous years.

Zymotic diseases caused 370 deaths, including 185 from small-pox, 13 from measles, 33 from scarlet fever, 3 from diphtheria, 55 from whooping-cough, 43 from fever (of which 10 were certified as typhus, 16 as enteric or typhoid, and 17 as simple continued fever), and 9 from diarrhea; thus to the seven principal diseases of this class 341 deaths were referred last week, against 394 and 380 in the two preceding weeks. Those from small-pox, scarlatina, and whooping-cough each showed a decline upon the previous week.

The fatal cases of small-pox in London during the past three weeks have shown a slow but steady decline, the numbers having been 227, 213, 194, and 185, respectively, in the four weeks ending last Saturday. It may be hoped, therefore, that the deaths from small-pox in the Metropolis will now continue to decrease. In nine permanent and temporary hospitals for this disease, 51 deaths were recorded last week. After distributing, so far as is practicable, these deaths in

[11.]

hospital among the districts from which the patients were admitted, it appears that 23 deaths from small-pox last week belonged to the West group of Districts, 37 to the North, 11 to the Central, 61 to the East, and 53 to the South. The fatal cases showed a decline last week in all the groups of districts, except the East, where there was a considerable increase; the decline was largest in the North Districts. In the East Districts 24 fatal cases were returned in Shoreditch, 17 in Bethnal-green, and 5 in Whitechapel.

Two fatal accidents caused by horses or vehicles in the streets were returned last week: a cabman, aged 22 years, died in St. Pancras Workhouse on 9th March, from injuries through falling from his cab; and a mariner, aged 27 years, died in the London Hospital on the 10th instant, through being run over

by a waggon.

In the large Public Institutions of the Metropolis 307 deaths were registered last week, showing a proportion of 19 5 per cent. of the total deaths; of these 145

occurred in Workhouses, and 154 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.75 in.; the highest was 30.14 in. on Saturday at noon, and the lowest was 29.10 in. on Thursday morning. The mean temperature of the air was 41°.7, and equivalent to that of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 59° 4 on Saturday; the lowest night temperature was 28° 9 on Wednesday; the entire range of temperature in the week was, therefore, 30° 5. The highest temperature in the sun was 99° 0 on Sunday, 12th instant. The mean temperature was 49° 9 on Sunday, or 8°.7 above the average; but on Wednesday it had fallen to 34°.3, and 7°.4 below the average. The difference between the mean dew-point temperature and air temperature averaged 5°·3. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 45° 2 last week. The mean degree of humidity of the air was 81, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air amounted to 13 miles per hour. Rain fell on four days of the week to the amount of .58 of an inch, of which ·32, including melted snow, fell on Thursday. Snow fell both on Wednesday and Thursday mornings.

The mean temperature of the week in the other large English towns furnishing returns ranged from 37°·7 in Newcastle-on-Tyne, to 43°·6 in Portsmouth; the lowest recorded night temperature was 19°·9 in Salford, and the highest day temperature in the shade 59°·4 in Portsmouth. Rain fell in all the towns furnishing returns; the amount ranged from '35 of an inch in Wolverhampton, to '71

in Nottingham.

In Centigrade degrees the mean temperature of the air last week at Greenwich was  $5^{\circ}\cdot 39$ ; the highest day temperature in the shade was  $15^{\circ}\cdot 22$ ; the lowest night temperature was  $-1^{\circ}\cdot 72$ ; the highest temperature in the sun was  $37^{\circ}\cdot 2$ . The mean temperature of the corresponding week in 50 years was  $5^{\circ}\cdot 39$ , and corresponded with the temperature of last week. The wind blew at the rate of 21 kilometres an hour, and the rain-fall was  $1\cdot 47$  centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 235,591 cubic metres, and at Barking 254,216 cubic metres, equivalent to about as many tons by weight.

Note. - A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the ELEVENTH Week of Ten previous Years.

Total Births  Males Females .	1861 1960 996 964	1862 1940 991 949	1952 1952 1006 946	2177 1117 1060	2310 1185 1125	1866 2218 1140 1078	2146 1098 1048	1868 2288 1172 1116	2166 1116 1050	2308 1150 1158	Average of 10 Weeks.  2146.5 1097.1 1049.4	1871 2297 1150 1147
TOTAL <b>Deaths</b> Males Females	1226	1423	1561	1508	1538	1738	1572	1309	1549	1532	1495·6	1576
	633	715	802	743	794	869	763	665	777	775	753·6	835
	593	708	759	765	744	869	809	644	772	757	742·0	741

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

													1701
	Dec. 24.	Dec. 31.	Jan.	Jan. 14.	Jan. 21.	Jan. 28.	Feb.	Feb. 11.	Feb. 18.	Feb. 25.	Mar.	Mar. 11.	Mar. 18.
Total Deaths	1377	1760	1828	1896	1846	1632	1683	1749	1625	1633	1591	1601	1576
Deaths under 5 years of age - Deaths 5-20	540 143	672 150	651 142	660 135	650 156	601 142	603 139	640 166	642 142	627 163	643 174	652 162	616 150
Deaths 20—40	205 215 218 56	250 294 322 72	242 330 391 72	241 355 412 93	271 294 377 98.	224 282 318 65	284 285 306 66	260 281 333 69	247 265 280 49	246 263 267 -67	237 259 215 63	244 242 238 63	259 251 256 44
Deaths from Small-pox , Measles , Scarlet Fever , Diphtheria , Whooping-cough	82 25 104 6	110 29 110 8 49	79 34 112 4 36	135 27 77 9 38	188 17 68 6 51	157 12 66 8 47	196 12 49 6 43	211 9 46 10 51	218 11 48 8 58	227 15 47 2 54	213 15 53 11 53	194 14 54 9	185 13 33 3 55
", "Typhus fever - ", Enteric (or Ty-) ", phoid) fever -	16	10	10	10	5	10	11	13	11	12	14	5 15	10 16
" " SimpleContdfever " " Diarrhœa - " Simple Cholera -	12 9	13 6	19	11 17	17	10	13 14	16 14 —	, 9 14 —	7 14 1	13 1	7 15	9
,, Phthisis ,, Bronchitis ,, Pneumonia - ,, Heart Disease -	144 174 75 57	185 265 105 88	186 319 .93 102	178 377 91 109	155 309 89 93	162 250 84 71	174 248 90 82	175 223 83 75	166 194 66 89	138 177 75 94	149 174 92 63	160 176 89 59	178 209 77 67
Mean Temperature of the Air	33.0	25.7	31.1	33.0	37.1	32.4	34.9	41.6	42.7	43.8	45.7	46.3	41.7
Mean Temperature of the Water of the Thames -	-			1	-	-	34.6	40.1	40.5	42.9	43.8	45.2	45.2
Humidity of the Air	078	85	- 84	: 87	93	84	. 91	82	87 :	81	. 79	78	81
Rain-fall in inches	0.17	0.42	0.07	0.08	1.32	0.54	0.19	0.72	0.02	0.06	0.11	0.47	0.58

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increasesince 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.;—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Cecles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Charleston, F. G. S., F.M.S., F.M.S., Charleston, F. G. S., F.M.S., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Win, Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 18th day of March 1871, in the following large Towns.

		rom day o	1 Mate	1 16/1, 111	the lone w.	ing iai	50 1011	1100			
CITIES	Area	Estimated Population	Persons	BIRTHS registered	DEATHS registered		ATURE OF AHBENHE	THE AIR.	TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FALI
BOROUGHS.	in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 18th Mar. 1871.	during the Week ending 18th Mar. 1871,	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean	Weekly Mean of the Daily Mean	In Inches.	Cer met
				10/10	10/1.	110020		Values.	Values.		
Total of 20 Towns in the United Kingdom -	213,281	7,336,961	34.4	5190	3606	62.1	19.9	40.4	4.69	0.22	1.4
LONDON	77,997	3,258,469	41.8	2297	1576	59°4	28.9	41.7	5'39	0.28	11
PORTSMOUTH	9,513	125,464	13.2	94 -	41	59.4	29°0	43.6	6.44	0.57	. 14
Norwich	7,472	81,787	10.9	57	36	55.0	28.5	41.0	5.00	0.47	1"
BRISTOL	4,688	173,364	37.0	123	.81		- ::	-	_		-
WOLVERHAMPTON -	3,387	74,438	22.0	58	33	55.2	27:4	39.5	4.17	0.32	0.
BIRMINGHAM	7,831	378,574	48.3	301	152	55.0	29.0	39.7	4.28	0.63	1.1
LEICESTER	3,200	101,367	31.7	74	50	57.5	25.5	40.2	4.55	0.65	1.
NOTTINGHAM	1,996	90,480	45.3	76	35	58.3	25.1	41.0	5.00	0.71	1.
LIVERPOOL	5,108	526,225	103.0	348	876	55.3	31.0	41.1	5.06	0.20	1.
MANCHESTER	4,486	379,140	84.2	286	174			-	*	-	-
SALFORD	5,172	123,851	23.9	94	46	57.5	19.9	37.9	3.28	0.48	1.5
BRADFORD	6.590	148,030	22.5	82	- 66	54.0	26.6	39.4	4.11	0.36	0.
LEEDS	21.572	266,108	12.3	201	124	55.0	28.0	40.6	4.77	0.43	1'0
SHEFFIELD	22,830	255,247	11.5	164	102	56.0	27.0	41.4	5.22	0.29	1.1
HULL	3,562	135,195	38.0	. 101	39	57.0	23.0	39.4	4.11	0.45	1.
SUNDERLAND	3,306	103,037	31.2	64	54	_		-	_	_	_
NEWCASTLE-ON-TYNE	5,336	136,293	25.2	96	73	55.0	24.0	37.7	3.17	0.48	1.
EDINBURGH	4,427	179,944	40.6	141	103	50.7	32.0	42.3	5.43	0.30	0.
GLASGOW	5,063	477.627	94.3	356	286	51.2	24.7	38.6	3.66	0.91	2.
DUBLIN	9,745	322,321	33.1	177	159	62.1	26.2	42*4	5.48	0.92	2.
											-
PARIS	19,279	2,019,877	98	- "	2576†	-		-	_		-
BERLIN	15,451	800,000	52	1	-	-		-			-
VIENNA	9,212	622,087	68	-	532†	-		47.21	8.434		-

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probabe available before the middle of the year, and will then be substituted for these estimates.

† The facts for Paris relate to the week ending 17th March; those for Vienna to the week ending 11th instant.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Weending Saturday the 18th day of March 1871.

	ANNUAL			1, 210	Tì	e DEA	THS reg	istered	in the	Week i	nelude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cames.	In Public
Total of 17 Towns -	25	3058	715	540	294	35	84	6	84	86	27	95	152	48
LONDON -	25	1576	339	300	185	13	. 33	3	55	43	9	4/7	73	80
PORTSMOUTH: -	17	41	9	8 .	1			1	-	1	-	1	2	
Norwich	23	36	. 7	9	-	- :	2	-	-	-	3	3	3	
Bristol	24	81	18	21	7.	1	6		-	· 2		4	5 .	3
WOLVERHAMPTON -	23	- 83	11	-3	-		1	_	. 1	3		1	3	
BIRMINGHAM	21	152	38	33	-	4	2	-	4	5	- 2	96	11	. 2
LEICESTER	-26	50	13	11.		.1.	4			1	-	an.		
NOTTINGHAM	- 20	35	8	5	-	-	2	- "		-	1-	-	3	
LIVERPOOL .	37	376	. 80	46	103	8	10		8	12	2	- 11	16	6
MANCHESTER .	24	174	45	28	1	6	6	-	1	3	2	6	12	1
SALFORD	19	46	15	5	-	1.	- "	1 -	2	2	_ 1	2	2	
BRADFORD	23	. 66	20	12			3		3	2		2	2	
LEEDS	- 24	124	33	19	_	1	2	2	1	5	4	3	4	
SHEFFIELD	21	102	21	15	-	_	9		7	. 2	3	3	7	
HULL College .	. 15	- 89	13	7	1	-	1	-			-1	1	2	
SUNDERLAND	27	54	21	9	-	_	3	_	1	2	_	2	3	
NEWCASTLE-ON-TYNE -	28	73	24	9	3			-	1	3	-	3	M	
DUBLIN	26	159	25	84	-	1	6	=	T	7	2	9	6	4

TABLE 5 .- DEATHS in LONDON Registered in the ELEVENTH Week of the Year 1871.

	f the Week 1861-70.		turda	у, М	eek e larch	18,	1871.			of the Week s 1861-70.		turd	ay, I	Veek Iarel f Per	h 18;	1871.	
CAUSES OF DEATH.	Averages of the Eleventh Week the 10 years 1861-70.	ALL AGES.	Und 20	er	Age:	000	sr 80°	and	CAUSES OF DEATH.	Averages of Eleventh W the 10 years 1	ALL AGES.	Uno 20	der	40.	60.	er 80.	and
	A in the	Mean			and under	under	and under	Years upwards.		in the	Mean	-	-	under	under	nudi	upwards.
Mean Temperature -	40.1	Tem.	10-6.	5-20.	20 and	40 and	60 and	80 Ye	Mean Temperature -	40.1	Tem.	0-3.	5-20.	20 and	40 and	60 and under 80	80 Ke
ALL CAUSES	1495.6	1576	616	150	259	251	256	44	9. Stricture of Intestines - 10. Fistula	*6	1	-		1	-	- 1	-
SPECIFIED CAUSES	1479.6	1573	615	149	259	251	255	44	11. Stomach Disease, &c	6.6	4	1 - 1	1	1 1	2	-	-
I. ZYMOTIC DISEASES. ORDER 1.								П	12. Pancreas Disease, &c 13. Hepatitis - 14. Jaundice	3*9 4'9 15*8	3 22	3	-	6	- 9	- 6	8
1. Small-pox	16:1	185 13 33	71 12	54 1	46	11	3	-	15. Liver Disease, &c 16. Spleen Disease, &c	-3		-	_			-	
3. Scarlet Fever (Scarlatina) 4. Diphtheria – – 5. Quinsy – – –	38·2 9·0 1·9	33	25	6	2 -	1	-	=	ORDER 5.  1. Nephritis	1'2	3	-	1	1	-	1	-
6. Croup	15.1	12 55 10	11 53	1 2 1	=	-	_	-	3. Bright's Disease (Nephria) 4. Diabetes	9.2	9	- 1	-	3	5	1 -	=
8. Typhus	54.0	10 16 17	2 1 5	1 6 8	6 4 1	1 1 2	1 2 1	-	5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	1.8	7			2	- 2	-	- 2
9. Erysipelas 0. Puerperal Féver (Metria)	6.9	7	5 3 -	-	1		1 -	-	ORDER 6.	•7							-
1. Carbunele	1.8	1	1	111	-	-	- - 1	-	1. Ovarian Dropsy 2. Uterus Disease, &c	3.8	5	-	=	1	3	1	-
4. Diarrhea	12.6	9 -	7	-	-	1 -	_	1 -	ORDER 7.  1. Synovitis (Arthritis) -	6.1	7	- 1	3	- 2	ī	-	-
6. Ague	1°4 8°4	- - 6		-	- 2	- 2	- 2	-	2. Joint Disease, &c ORDER 8.				-				-
9. Other Zymotic Diseases - ORDER 2.		1		_1				-	1. Phlegmon	2·2 1·4 1·8	1	E	-	8	1	ī	
1. Syphilis 2. Stricture of Urethra - 3. Hydrophobia	7.6	10	7	-	2	1	-	-	3. Skin Disease, &c IV. DEVELOPMENTAL								-
4. Glanders ORDER 3.	-1	-	Ē	-	_		=		DISEASES. ORDER 1.	-							-
1. Privation	5.5	1 7	7		-	-	1		1. Premature Birth 2. Cyanosis	18·5 2·7	18 6	18 6	-	-	-	-	-
2. Want of Breast-milk - 3. Purpura and Scurvy - 4. Alco-j a Del. Tremens -	2.1	7 7 2 2 2	7 3 -	-	1	3	1		3. Spina Bifida 4. Other Malformations -	1.6 23.0	1 18	1 18	-	-	-	-	
holism   b Intemperance - ORDER 4.	1.0	-		_		2	-	-	5. Teething ORDER 2.			-		_			
1. Thrush	2:8	3 -	3	Ξ	-	-	Ξ		1. Paramenia 2. Childbirth (see Puerperal)	5.9	2		-	2	-	-	-
L CONSTITUTIONAL DIS ORDER 1.									Fever) 6 ORDER 3.	2010							2
1. Gout	15.6	3 14 29	2	ī	3	2 4 17	6	1	1. Old Age ORDER 4.	63.9	55	-	-	-	-	30	25
3. Cancer	25.6 .5 4.7	25	-1	-	-	-	9		1. Atrophy and Debility -	61.2	61	51	2		8	5	-
ORDER 2.	9.3	11	9	1	-	1		-	V. VIOLENT DEATHS, &c.								п
2. Tabes Mesenterica	19°2 186°7 34°8	25 178 34	22 12 29	14 5	93	50	9	-	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions	13:5	16	1	4	4	5	2	-
III. LOCAL DISEASES.	310	- Ox	-	-			-	-	2. Wounds 3. Burns and Scalds	7:1	6	3	1 3	1 -	- 2	-	-
ORDER 1.	14.0	11	5	1	3	1	1	-	4. Poison	3.4	16 2 6 2 6 8	- 5	2	4	-	1	1
2. Apoplexy	38·0 32·1 1·3	26 36 1	3 -	7-	3	6 7 1	12 24	1 2	7. Otherwise	1.3	1	1	-		-	-	_
5. Chorea	7.9	1 7	1	1 2	2	-	2	111	ORDER 3. (Homicide.)								
7. Convulsions 8. Brain Disease, &c	59·5 18·7	61	60 8	1	4	3	6	-	1. Murder and Manslaughter ORDER 4.	2.6	1	1	-		-	_	
ORDER 2. 1. Pericarditis	2.0	5	1	1	- 2	-	1	-	(SUICIDE.)	*3							
3. Heart Disease, &c ORDER 3.	71.2	67	ī	6	7	26	26	1	1. Wounds {Gunsbot Cut, Stab 2. Poison	1'4	2	=	-	1	1 - 1	-	-
1. Laryngitis	12.3	11 209	10 71	1	n	45	73	8	3. Drowning		1 1	-		 ī	1	-	
3. Pleurisy	91'0	8 77 10	48	6	11 1	9	3 7 2	1	5. Otherwise ORDER 5.		-	-		-		Ė	
6. Lung Disease, &c ORDER 4.		21	12	1	3	3	2	-	(EXECUTION.) 1. Hanging		-	-	_	_	-	-	-
1 Gastritis		1 4	ĩ	- 3	- 2	1	2	=	Violent Deaths (not classed)	3		1		_	_	-	
4. Ascites	2°7	7 2 5	1	2	1	1	1	-	Sudden Deaths (Cause un-	0.0	2	1	-	_	-	1	-
6. Hernia	8.8	5 4 1	1	1.1.1	1	4 -	1 1 1	1	ascertained)	12.8	1	-	1	-	-	-	-
8. Intussusception	1	1	1	1 -	1	1	1 1		uomica -		incover	1	2 . 42		1	1	

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON.-Population, Births, Deaths from all Causes, and from Small-Pox, Measles, Scarlet

													du	ring	the	Wee	k en	ding
			dwring	during				The	DEAT	us re	gistere	d in t	he W	eek in	elude			
REGISTRARS' SUB-DISTRICTS.		POPU- LATION, 1861.	Total BIRTHS dwithe Week.	Total DEATHS dun	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Searlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
LONDON .		2,803,989	2297	1576	339	300	185	13	33	3	55	10	16	17	9	47	73	307
WEST DISTRICTS NORTH DISTRICTS - CENTRAL DISTRICTS - EAST DISTRICTS - SOUTH DISTRICTS -		458,125 618,210 383,321 571,158 773,175	338 534 186 506 733	260 868 147 324 477	47 74 25 90 103	59 62 29 47 108	20 56 6 51 52	4 2 - 1 6	11 4 1 7 10	1 2 -	15 12 4 15 9	3 - 1 6	1 8 1 2 4	1 4 8 9	1 3 - 1 4	11 9 7 9 11	14 13 13 15 18	63 99 23 53 69
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Brompton H - St. Peter Hammersmith H - St. Paul Hammersmith H - Fulham WLLLL - Chelses South HH -		\$9015 86769 51910 18198 5415 19104 15539 21654	45 16 62 10 5 18 25	24 20 28 12 3 10 14	4471-3	5 6 6 2 - 3 4	1	4	1 1 - 2 - 1	Ti.	2 2 3		1	11111111		1 3 1	1 2 - 1 4 -	25437.13 2
Chelsea South HH Chelsea North-west HWw Chelsea North-east L Hanover Square Har W Belgrave HH St. John Westminster HHH St. Margaret Westminster WW St. James's Square	HH -	19899 21886 19773 12885 55113 37483 30730 10753	13 9 13 4 26 23 25 2	20 8 1 8 35 25 27 3	1 - 7 8 6 -	477-542513	1 - 5 6 5 -		1 - 1 1 1 1 1	i initiati	1 - 3 1 2 -		111111111	1111111111	11 8 1 1 1 1	211	1 2 8	11 34 8 16 -
Golden Square W Berwick-street St. Anne Soho HH NORTH DISTRICTS.		13966 10607 17426	4 5 15	7 5 4	2 -	3 1 1	1 1 1		ĩ.	7.1.2	1	111	+ 154	111		= '		1
All Souls Marylebone HH – Cavendish Square – – Rectory Marylebone WH – St. Mary Marylebone H – Christchurch Marylebone – St. John Marylebone – Hampstead WHH – –	1 1 1 1 1 1 1 1	29952 15090 26692 22493 34913 32540 19106	23 4 17 31 27 20 14	20 4 25 5 13 11 17	3 3 5 2 3 1	5 6 2 3	1 13	1 1 2 2	111111	10000	1 - 1	111111111111111111111111111111111111111	2	1111111	1111111	injui	1 1 1 -	8 14 8 1 15
Regent's Park Pancras — Tottenham-court wH — Gray's Inn Lane H — Somers Town — Eamden Town W — Kentish Town W — Islington West* WHHH —		34927 29371 27808 39099 23266 44317 75442	27 29 17 22 20 63 63	9 28 10 20 9 35 47	2 3 4 3 9	2 8 2 2 5 7	1 1 8 - 2 9	111111	1 - 2	祖二二	1111	111111	1 1 2	1 1 1 1 1 1	1	1 1 8 1	1 4 4	16 1 -4 2
Islington East Weve - Stoke Newington L - Stamford Hill West Hackney Hackney WwHL - South Hackney L	11111	79899 6608 5483 24265 31481 15458	73 4 7 21 30 22	49 2 2 13 85 14	10 2 3 8 2	11 - 4 2	1 - 6 17 1	111111	1	111111	2 3 - 1	1	11111	LILII E	1	111111	111	22
CENTRAL DISTRICTS. St. George Bloomsbury St. Giles South WH St. Giles North		17392 19483 17201	14 9 12	8 12 5	2 2 3	2 2 -	-	111			1		111	17.1.1.	111	1	1 -	6
Long Acre Charing Cross WH St. Mary-le-Strand St. Clement Danes H St. George-the-Martyr HHH		11618 11071 10846 15207 19903	5 7 8	5 2 8 12 7	1 1 1 1	1 1 2 4 2			11111	11,111,1	1 1111	1111	1 111 1	1.11.1.1	11111	11111	11111	7
St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell W - Amwell Clerkenwell - Pentonville - Goswell-street - Old-street - City-road Whiteross-street -		12947 12012 19152 17250 13079 16200 11504 17860 14778	10 5 11 4 5 12 8 21	3 13 6 4 8 8 9	1 2 1 3 2 2	1 1 2			1	- Mannan	1110111111	111341111		1	THE PERSON		मार्गा । । ।	11111111
Finsbury St. Botolph East London HH Cripplegate St. Sepulchre H St. Bride W Castle Baynard Christeburch Oneenhithe		12931 20990 19697 11750 15895 7762 9020 8570	5 9 8 1 5 1	8 4 8 7 4 1	1	2 - 1 1 - 1	1		1117111	11111111	1	eritra er		11111111		1 1 8 1 1 1	1 1 1 4 1 1 1	1 6 1 1 1 4
Allhallows Barking + - Broad Street		8659 11544	7	5 5	ī	2	=	-	-	-	-	-	-	- 9	Ξ.	1	1	-

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H-Hospital;

L-Lunatio Asylum;

w-A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district aturday, 18th March 1871.

aturday, 18th March 1871.																	
		during	during			5	The D	EATHS	regis	tered	in the	Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total Births du the Week.	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cares.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch	17313 19188 26516 25777 23260 17310 26298 31769 25528 21486	11 23 19 15 22 10 24 42 22 11	4 19 15 9 18 3 13 21 14 8	15318 - 4528	1 8 2 2 1 1 2 1 2	2 8 4 2 7 1 7 5 5	1111 11111	1 2 1	TITE SECTION	111111111111111111111111111111111111111	THE PERSON	1	1	1		12 17 11 11 11 1	3771
rtillery Whitechapel	6557 15700 15392 12122 8062 11166 9071	2 14 12 7 6 9 4	2 9 6 9 11 9 4	3 2 1 2	2 1 2	1 2 -	1 1111111		r gritterr r	1	1	1111111	- - 1 1	1 1111111	1 1 1 1 1 1 1 1 1 1	1 - 2 1	1161611
t. Mary St. George East	21015 9695 12537 16874 27161 83747 89317	17 13 4 15 26 38 89	6 10 5 4 13 22 29	22 1 23 5 4	2 - 57	1 2		2 1	11 111 11	3 22	11 111 11	1	11 111 11	11 111 11	111	1 - 3 2	6
Sow WwHLt	35667 43529 17069 19101 19652 16668 19190 22675 44463	56 35 10 10 15 14 13 18 52	32 21 15 11 9 8 19 7 25	11 11 2 3 2 1 2 1	7 4 1 2 2 8	1 - 2 1 1 2 2 2	11 11111111	11 111111	हैं। क्षां ।।	3 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 111111	1	1111111 11	1	1 - 1 - 1	10 3
St. Olave Southwark H  St. John Horsleydown W  Leather Market  St. Jamy Magdalen W  St. James Bermondsey  Rotherhithe W	7663 11393 16696 16505 25154 24502	12 2 6 13 15 40 16	15 14 7 14 7 19 17	1 1 4 1 3 6 2	5 1 2 2 4 3	5114	1 111111 1	i iniini i	i anima	1	111	- 1	1		i itiitet i	1 - 1	13 1
Waterloo-road 1st H	18640 19839 29542 30785 20440 20067 7462	13 23 24 37 28 18 23 7	6 9 17 12 6 25 6	2 - 1 4 2 3 1	1 2 7 1 1 6	1 1 1 1 11 2	1	1111	11,11111	- - -	1 1 1 1 1 1 1 1 1	1 111111	1	1	ī -	1 1111111	6 - 10 -
Batiersea W Wandsworth HL Putney Streatham  Dulwich Camberwell WL*L† Peckham W  St. George Camberwell	19600 13346 6481 10082 1723 21297 28135 20333	44 12 5 7 5 17 30 86	35 9 3 7 1 18 15 11	9 1 1 1 5 8 2	6 1 2 4 1 6 3	7 2 2 2 2		2 - 1	Tree Trees	-	1000 200	(1111	1111 1111	1	2	- - 2 - 1	331 - 161
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH  Eltham Le Le Le Lewisham Village W  Sydenham	37834 8139 21696 18306	87 4 5 19 2 10 7	16 3 8 17 1 2 9	1 1 1 1 1 1	1 3 7	1111,1111	1 2	1111 1111	1 1 1 1 1 1 1	1 1 -	1111 1111	2 - 1	1 1	111, 1111	1	2 2 1	7 - 12
Sydenham	7372 10595 9276 22919 18776 } 24502 {	10 3 15 13 8 17	6 5 4 10 4 7	2 2 2 1 2	1 1 2 1 2	1 - 1	1	1	111111	- 2	1 111111	11111	1 1 21 1 1	1 11111	1 1 -		21111

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh is in Chelsea North-west sub-district.

The Strand - , , Tottenham-court sub-district.

London City - , , Islington East.

Do. do. - , , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.
Mile End Old Town Eastern sub-dist, and
Bow sub-district,
Stepney - ,, ,, Bow sub-district,

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the Roxal Observatory, Greenwich, during the Week ending Saturday, 18th March, 1871.

	_						4.0	leteor	ologi	····	003	ervations.						
1				·əuozo	::	::	:	::	:	56	11	hose hose dry dry five flaily	sults the well	rage erva-	d as	the of	k to	was
	RAIN.	Collected	Gauge	surface is 5 in, above the ground,	Inches 0.00 0.04	0.18	0.32	00.0	Sum 0.58	25		ve the not the not not at 9h. A ter, the d into no S., from e mean c	The ary The red include P.M., as	The ave ical obse	nd-"10u nderstoo	ii-registe the dept ed under of Lieut.	the wee	h; decre
		Reinmonn's	Amount of	Horizontal Movement of Air each day.	Miles. 491 449	262 257	422	199	Sum 22202	24		reet abo coincider are taken e barome converte sher, F.R. 1848. Th	values or edition. column 7 : and 9h.	to each, ermometr ing 1863,	igher," a	use of se Ship, at register rmission	nning of	on the 15t on the 15t on the 1
ı					lbs. 0.8 0.8	0.1	1.0	0.0	:	23		be 159 to be ations of th es, are s Glais	canny ourth ted in h. P.M.	pplied the th	ead "heons ar	oy the olice f nts are by pe	ie begi	noon noon
ı		emomet	onsdna	Least.	lbs. 0.1 0.0	0.0	0.0	0.0	:	22		ed to sidered observadings se time v Jame	oles, F exhibition 3	peing a from 50 year	servati	amed on" P strume skip,	ice.	in. by
	WIND.	from An	Pressure on square foot.	Great-	lbs. 12.4 30.0	2.5	30.0	1.8	:	201		onsider re con re con the re at the reed b	oal Ta nbers	tions laisher the	ind the rical ob	ascert Scorpi sese in	an Pol	29.78 30.14
		As deduced from Anemometers.	irection.	P. M.	ssw. & sw.	SW.&N. NNW.&	NNE, &	WSW&W NNE. & ESE.	Variable.	03	NOTES.	meter is constent and barometer and barometer means of tropserved ctions deductions and at 31,—See at 31,—See	Lygrometri or the nu	roper corrected by Mr. Greenwich, i	borne in m meteorolog sht to midn	r of the Thames is ascertained by the use of sen-registering in the side of the "Scorpion" Police Ship, at the depth of The readings of these instruments are registered under the tinspector on board the ship, by permission of LieutOo,	Metropolitised from	eased to ze increased t ncreased to
	. 1		General Direction.	A.M.	S.W.	SW. NNW.&		NW.&N.	Vari	19		The height of the cistern of the barometer is considered to be 19s feet above the mean level of the sea. The readings of the barometer are considered to be coincident with those of the Royal Society's finit glass standard barometer. The observations are taken at 8h A.M.; and 9h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry thermometer, and the wei thermometer, of the barometer, the dry the many by the application of corrections deduced hy James Glasher, Fl.R.S., from the years' observations enting 18th, December 31.—See Phil. Trans, part, 1 18th. The mean daily years of	dew point and degree of humidity are deduced from those mean daily values of the dry and wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at \$\text{p}_{ij}\$ h. AM, it only is h. P.M., as well so observations of the dry thermometer, read at \$\text{p}_{ij}\$ h. AM, it only is h. P.M., as well	eters, the protection of the determine servatory, G	*In reading the 17th column it will be borne in mind that is read "lighter," and ""lower," than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight to midnight	The emperature of the water of the frames is acceptanted by the the operations of setti-expectant the entering the state of the "Scorpion." Police Ship, at the depth of the about 2 feet below the surface. The readings of these maximum sare regressed under the autor setting of the policy is the present of the state. To be sufficient to be setting to be sufficient to sufficient to be sufficient to sufficient to be sufficient to s	nissioner of	29.48in, by 100. P.M. on the 120n; increased to 29.72in, by 9th 4.M., on the 15th; decreased to 29.73in, by 5th 2.M. on the same day; increased to 29.73in, by noon on the 15th; decreased to 29.73in, by noon on the 15th; decreased to 29.10in, by 7th A.M. on the 16th; increased to 30.14in, by noon on the 15th; and was 30.73in, at the end of the week.
	Degree	of Hu- midity, complete	tion being	repre- sented by 100.	78	36	16	75	81	18		cistern he readir s flint gl id 9h. P he wet t applicati	ters by perature dry ther	ced from thermom air is tha toval Obs	th column The result day, or	of the wended finhe surfaction the surfaction	B., Conni	K. on the M, on the A,M. on of the we
[Under the Superintendence of the Astronomer Royal.]	Ø	Between mean tem-	the day and mean tem-	perature of the same day on an average of 50 years.*	++	+ 1.6	- 6.2	+ 3.8	0.0	17		The height of the level of the sea. The of the Royal Society noon; 3h. P.M.; at thermometer, and thaily values by the years' observations e	and degree thermome daily tem ons of the	suits acau gistering t are of the	ling the 17 iverage. 1 to the civil	The temperature of the water thermometers, suspended from about 2 feet below the surface, surperintendence of the readen	ading of th	oy 10h. P.N n, by 5h. P. n, by 7h. t the end
ronome	DIFFERENCE	Point re	ture.	Least.	0 4.6 1.5	2.4	0.0	0.0	67	16		the hei of the he Roy on; 3h or 3h o	v point t bulb mean eervatic	the respectively	In reach in the solying	the ten srmom out 2 fe	inderso	48 in. 29 65 ii. 29 10 ii. 12 in. 2
the Ast	DIF	Between Dew Point Temperature	and Air Temperature	Great.	10.1 11.8	9.0	6.4	13.0	10.9	15							Ħ	2558
nce of	1	Betwe	Air	Mean daily value.	5.1	6.12	2.3	3.4	5.3	14		ain fell	d by he raried ti	ut. Rai wers fe	loomy ti	and thin till night,		
ntende		ater of	ch, by	neters. Lowest,	45.0 45.0	45.0	41.5	42.0	43.5	13		Thin r	ompanie stantly y gusts	hroughor int sho	Very g	hours,	. Nr.	
Superi		In the Water of	Greenwich, by self-registering	Thermometers.	47.0	47.5	47.0	46.1	46.8	12	PHERE	rariable.	ally, account constant	valent tl id freque	h, A.M.	morning Jenerally	ter 11h. A	
nder the	rers.	Lowest on the	shownby a self-	register- ing Minimum Thermo- meter.	44.0	34.0	8.62	28.5	81.4	11	AND ATMOSPHERE	ien very	occasion ount of c	of cloud were prevalent throughout. Rain, fell at noon, and frequent showers fell	h. and 10 ly covered	he early ie day.	rereast af	
2]	THERMOMETERS.	Highest in the sun, as	a self-regis- tering	meter with blackened bulb in vacuo, placed on the Grass.	99.0	98.0	58.0	86.5	88.0	10	SKY AND	Cloudy till the afternoon; then very variable. Thin rain fell in e morings. Very winds.	vy showers of rain fell occasionally, accompanied by hall 6h. 30m. A.M. The amount of cloud constantly varied till when the sky became cloudless. Heavy gusts of wind ent.	ts of cloud	I heavily between 7h, and 10h, A.M. Very gloomy till Thin clouds generally covered the sky during the day.	fell heavily during the early morning hours, occasionally during the day. Generally cloudy jable.	dless in the morning; overcast after 11h, A.M.	st. Hazy.
ı	OF	Dew Point,	Mean		43.2	37.9	33 . 4	30.9	36.4	6.	92	il the al	howers Om. A.M a the s	Variable amounts mingled with hail, atterwards.	heavily Thin clo	heavil	in the r	Generally overcast.
	READINGS		Mean		49.9	43.1	35.7	38.2	41.7	00		Cloudy till the morning.	Heavy sl bout 6h. 3 ight, whe revalent.	ariable igled w	Snow fell 10h. A.M. T	Snow fell hrain fell occasi	Cloudless	enerally
		Dry.	Range		10.2	14.1	9.5	14.0	14.2	1		5	810					
		1	-	Low-	3 46.6 4 39.0	7 28.9	32.5	1 30.7	1 35.9	9	.7	as blow	positive current niddle	th stron galvani mornin	e, with	shown No elec-	tension	shown
				High-	2 56.8	2 51.7 6 42.7	2 42.0	7 59.4	5 50.1	50	RICITY	lamp w	tive and alvanic ng the	tive, wi	negative, were	6 W88	noderate	e was
	BARO-	Mean		and reduced to 32 degr. Fahren heit).	in. 29.582 29.567	29.682	29.472	30.101	29.745	4	ELECTRICITY	iulating 3 wind.	rong negs ks and g wn durii	and negation appart	s and tension,	negativ h. and 81 other tim	, with n	positivatt.
	MOON.		Phases	Moon,	Last		:	• •		00	H	The inculating lamp was blown out by the wind.	Very strong negative and positive, with sparks and galvanic currents, were shown during the middle of the day.	Positive and negative, with strong tension, also sparks and galvanic currents, manifested in the morning.	Positive variable ta	Strong negative was between 7h. and 8h. F.M. tricity at other times.	Positive, with moderate was shown throughout.	Strong positive throughout.
				DAY.	13 25	• 14 v 15	. 16	11 18	1.	mns.		13	7	14	15	16	17	18
		1001	101	Month and Day.	MARCH.	TUESDAY .	THURSDAY	FRIDAY.	MEANS	No. of Columns.	DATE.	MARCH.	Monday .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAT .	SATURDAY.
	-				1024					-	-	1 1 37	-	-	_			

# WEEKLY RETURN

# AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 12. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, MARCH 25. [Price 11/4].

General Register Office, Somerset House, 27th March 1871.

DURING the week ending Saturday the 25th instant, 5660 births and 3919 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality in the week was at the rate of

28 deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 27 per 1000; Portsmouth 15, Norwich 22, Bristol 22, Wolverhampton 20, Birmingham 27, Leicester 20, Nottingham 24, Liverpool 41, Manchester 26, Salford 22, Bradford 24, Leeds 23, Sheffield 28, Hull 22, Sunderland 22, and Newcastle-upon-Tyne 31. The fatal cases of small-pox in these towns last week were 318, against 292 and 294 in the two previous weeks; 205 were returned in London, 97 in Liverpool, 11 in Newcastle-upon-Tyne, 3 in Manchester and Salford, and 2 in Leeds. In addition to the continued severity of the epidemic in London and Liverpool, there was a threatening outbreak in Newcastle last week. The annual death-rate from small-pox was equal to 10 per 1000 last week in Liverpool, 4 in Newcastle, and 3 in London. Measles was very prevalent last week in Manchester and Birmingham.

In Edinburgh the annual rate of mortality from all causes last week was 27 per

1000 persons living, in Glasgow 39 per 1000, and in Dublin 30.

No return has this week been received from Paris, which is still in the feverish relapsing state, following weeks of famine, and its clouds of disease. The annual death-rate in Paris during the seven weeks ending 17th instant, averaged no less than 87 per 1000 of the total population, including the military. In Brussels the death-rate in the week ending 18th instant was 45 per 1000; the fatal cases of small-pox were 38, against 40 and 32 in the two previous weeks. In the City of Bombay the deaths registered during the week ending 28th ultimo were 357 (exclusive of still-born), and the mortality was at the annual rate of 23 per 1000. In the City of Madras 259 deaths were registered in the week ending 10th ultimo, showing an annual death-rate equal to 31 per 1000 of the population. In the City of New York the deaths registered in the week ending 4th instant were 514, and the equivalent annual rate of mortality was 28 per 1000.

In London 2429 births and 1665 deaths were registered last week. After making due allowance for increase of population, the births were 101, and the deaths 27, above the average numbers in the corresponding week of the ten

previous years.

Zymotic diseases caused 390 deaths, including 205 from small-pox, 10 from measles, 36 from scarlet fever, 6 from diphtheria, 48 from whooping-cough, 32 from fever (of which 12 were certified as typhus, 14 as enteric or typhoid, and 6 as simple continued fever), and 9 from diarrhoa; thus to the seven principal diseases of this class 346 deaths were referred last week, against 380 and 341 in the two

preceding weeks.

The fatal cases of small-pox in London, which in the four preceding weeks had steadily declined from 227 to 213, 194, and 185, successively, rose again last week to 205. In eight permanent and temporary hospitals for this disease, 66 deaths were recorded last week. After distributing, so far as is practicable, these deaths in hospital among the districts from which the patients were admitted, it appears that 37 deaths from small-pox last week belonged to the West group of Districts, 49 to the North, 18 to the Central, 44 to the East, and 57 to the South. The fatal cases showed an increase last week in all the groups of districts, except the East, where the number had declined. The disease is still, however, most fatal in the East of London and in Westminster, although the fatal cases had increased last week in St. Pancras, Walworth, Bermondsey, Clapham, and Wandsworth.

[12.7]

The "Metropolitan Water" Bill, about to be read a second time in the House of Commons, bids fair to secure to the water consumers of the Metropolis, that all but indispensable boon, "constant supply." Clause 30 of the Act also enacts that the water supplied by the Companies shall be "effectually filtered according to the best known mode of filtration, to be from time to time appointed by one of Her "Majesty's Principal Secretaries of State;" and that the water shall be of a certain standard of purity, laid down in a schedule of the Act. The Act moreover gives power to the Metropolitan Board of Works, or some other such Metropolitan authority, to purchase the property and interest of the existing Water Companies. This impending legislation on the subject invests with greater interest the monthly

Dr. Frankland in his report upon the quality of the Metropolitan Water Supply during the present month calls attention to the following facts. The Southwark, Lambeth, and East London Companies delivered slightly turbid water containing living organisms on 9th and 10th instant. With regard to the East London Company this was attributed to some work in progress at the main from which the sample was drawn, and a second sample drawn on the 20th showed the water quite clear. With regard to organic impurity, the most objectionable in potable water, the best sample of water tested in the month was delivered by the Kent Company, drawn from wells sunk in the chalk; and the next best by the New River Company, derived partly from deep seated springs, partly from deep wells, and partly from the River Lea. The quality of the Thames water showed a considerable improvement upon that supplied in February, but the Grand Junction and West Middlesex waters, which were the best from this source, contained more than four times the amount of organic elements present in the Kent Company's water.

Dr. Frankland states that by the application of Clark's process of purification by lime\* to the Grand Junction Company's water on the 10th instant the total solid impurity was reduced from 30 to 14 parts in 100,000 parts of water, and the hardness from 22 to 6 parts in 100,000. With regard to the Birmingham water supply, Dr. Hill reports that the Waterworks Company was delivering slightly turbid water on 6th instant, when his sample was drawn, but that the quality of

the water continues to improve.

It appears from a table furnished by Dr. Frankland that the temperature of the nine samples of London water when drawn from the mains on 9th and 10th instant averaged 9.9 degrees Centigrade; the mean temperature of the air on those days was 6.1, and that of the water in the Thames 7.2 degrees Centigrade, respectively.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.84 in.; the highest was 30.12 in. at the beginning of the week, and the lowest was 29.59 in. on Friday at noon. The mean temperature of the air was 47°·1, or 4°·9 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 70°·9 on Friday; the lowest night temperature was 30°·2 on Wednesday; the entire range of temperature in the week was, therefore, 40°·7. The highest temperature in the sun was 124°·2 on Saturday. The mean temperature was only 40°·2 on Wednesday, or 2°·0 below the average, it was also slightly below the average on Tuesday, while a considerable excess prevailed on each of the other days of the week, the mean on Saturday being so high as 53°·9, and 11°·6 above the average. The difference between the mean dew-point temperature and air temperature averaged 5°·4. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 44°·4 last week. The mean degree of humidity of the air was 82, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air amounted to 6 miles per hour. No rain fell during the week, except on Saturday, and then only to the amount of '02 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 45°.9 in Newcastle, to 49°.6 in Manchester; the lowest recorded night temperature was 29°.0 in Hull, and the highest day temperature in the shade was 72°.9 in Salford. Rain fell in Manchester, Salford, and Sheffield, to

the amounts of ·31, ·45, and ·20 of an inch respectively.

<sup>•</sup> For Dr. Frankland's description of Clark's water-softening process see p. xxix. of the Registrar General's "Annual Summary for London and other large Towns, 1870," published by Messrs. Eyre and Spottiswoode, Queen's Printers.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 8°:39; the highest day temperature in the shade was 21°:61; the lowest night temperature was 1° of frost; the highest temperature in the sun was 51° 22. The mean temperature in the corresponding week of 50 years averaged 5° 67, or 2° 72 below the temperature of last week. The wind blew at the rate of 9 kilometres an hour, and the rain-fall was '05 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 204,054 cubic metres, and at Barking 237,635 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

The REGISTRAR GENERAL has to acknowledge the courtesy of the London Water Companies, who have furnished him with the average daily quantity of Water supplied for the month of FEBRUARY 1871: thus, according to their account, 100,782,216 gallons or 457,900 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 94.7 decalitres, rather less than a ton by weight, to each house, and 13.3 decalitres (=29.4 gallons) to each

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of February 1871, it may be estimated that about 82,827,194 gallons were probably used for domestic purposes, or about 24 1 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Peristre Consultant and the proportion of the propor

but the Registrar General has no means of giving a more exact estimate.

COMPANIES.		Houses, &c.	in Gallons (in Manufactures purposes other	upply of Water cluding that for and for various er than for do- mption) during
	JANUARY	FEBRUARY	JANUARY	FEBRUARY
	1871.	1871.	1871.	1871.
TOTAL SUPPLY (	483,328	483,566	102,824,606	100,782,216
From Lea and from other Sources	223,113	223,314	51,804,352	52,508,912
	260,215	260,252	51,020,254	48,273,304
Chelsea West Middlesex Southwark and Vauxhall Grand Junction Lambeth	27,670	27,670	7,203,100	7,663,600
	41,472	41,564	8,510,508	8,705,733
	77,277	77,293	16,391,400	16,427,390
	30,929	30,929	10,299,344	10,291,949
	45,765	45,858	9,400,000	9,420,240
LEA AND OTHER SOURCES.  New River East London Kent	118,440	118,477	22,400,000	20,937,000
	101,852	101,852	21,896,000	20,237,900
	39,923	39,92 <b>3</b>	6,724,254	7,098,404

Note.—The Return for February as compared with that for January shows an increase of 238 houses, and a decrease of 2,042,390 gallons of water supplied daily.

#### ANALYSIS OF METROPOLITAN WATERS FOR MARCH.

Royal College of Chemistry, 25th March, 1871.

I HAVE the honour to submit to you in the following table the results: of the chemical examination of the waters supplied to the Metropolis during the month of March, and I append also the results yielded by the Grand Junction. Company's water after the application of Clark's process of purification, together with the results of the analysis of the Birmingham water supply furnished by Dr. Hill.

The Southwark, Lambeth, and East London Companies were delivering slightly turbid water containing living organisms when the samples were drawn on the 9th and 10th instant. The rest of the companies were supplying clear and effi-ciently filtered water. In reference to the turbidity of the East London Company's water on the 10th instant, the Engineer to the Company informed me on the following day that some work, in the way of alteration, had been done to the main from which the sample was drawn, and that consequently the water might be disturbed by foreign matter for a few days In consequence of this information I drew a second sample on the 20th instant and found the water, on this occasion, quite clear.

By the application of Clark's process of purification by lime to the Grand Junction Company's water on the 10th instant, the total solid impurity was reduced from 29.6 to 13.7 parts in 100,000 parts of water, and the hardness from 22.4 to 5.7 parts in 100,000.

The most objectionable impurity in potable water is organic matter. respect of this kind of impurity, the best sample of water was that delivered by the Kent Company, from wells sunk into the chalk; the next best was that supplied by the New River Company, partly from deep seated springs, partly from deep wells, and partly from the river Lea. The quality of the Thames water has greatly improved since last month: the best water supplied from this source was that delivered by the Grand Junction and West Middlesex Companies, which contained, however, more than four times as large an amount of organic elements as that present in the Kent Company's water.

Dr. Hill reports that the Birmingham Waterworks Company were delivering slightly turbid water when his sample was drawn for analysis on the 6th instant,

but that in other respects the water continued to improve in quality.

The Registrar General, &c., &c.

I have, &c. E. FRANKLAND.

#### RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

Companies   and Place of Collection												
Chelsea   Sth March,   Cab Rank, Horse Guards   9.4   28.10   161   031   000   264   295   2320   2.00   20	Companies.		Temperature in centigrade degrees.	Total Solid Impurity.		Organic Nitro-	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sew- age or Animal Contamina- tion. (Esti- mated.)	Chlorine.	Total Hard-
Southwark   and Vauxhall   Cab Rank, Portland Road   9 4 29 24 141   1018   000   218 221   2410   1 90 22		{ Oth March, Cab Rank, Horse Guards }		28.10	•161	•031	•000	*264	*295	2320	2*00	20.
Cab Rank, St. George's Ohurch, Borough.   Cab Rank, St. George's Ohurch, Borough.   Cab Rank, St. George's Ohurch, Borough.   Cab Rank, Lambeth.   Cab Rank, Lovername.   Cab Rank, Court-road.   Cab Rank, Tottenham.   Court-road.   Cab Rank, Tottenham.   Court-road.   Cab Rank, Tottenham.   Court-road.   Cab Rank, Court-road.   Ca	West Middlesex -	{Cab Rank, Portland Road}	9.4	29.24	•141	•018	.000	•273	•291	2410	1.90	22
Grand Junction		Cab Rank, St. George's	10.0	29.32	•161	•027	•000	*247	-274	2150	1.93	22-
Clark's process   Clark's process   Clark's process   Cab Rank, Lambeth   Park   Par	Grand Junction -	14, Lancaster Gate, Hyde }	9.4	29.56	*145	•016	.001	*285	*302	2540	2'00	22.
Cab Rank, Lambeth-road   9 4 28 34 140 031 000 200 231 2220 1 98 21		14. Lancaster Gate, Hyde	9.4	18.70	•114	•021	.001	*315	*337	2840	2.00	5.
New River   Cab Rank, Tottenham-	Lambeth	{ 9th March, Cab Rank, Lambeth-road }	9.4	28.34	•140	.031	.000	*260	•291	2280	1.98	21.
East London { Slater's Lamp Black Wrks., } 10'3 32'26 '171 '025 '001 '331 '387 8000 2'20 22'	0	Cab Rank, Tottenham-	9.2	27.56	*064	*014	•000	*273	*287	2410	1.73	22.
Birmingham* { Deptfd. Bdge. Police Stat. } -   24*30 * 191 * 020 * 001 * 277 * 298 * 2463 * 1*59 * 18	East London	Slater's Lamp Black Wrks., }	10.3	32.26	•171	*025	.001	*331	*357	8000	2.50	22
Birmingham Waterworks 3 — 24 30 131 020 001 277 238 2403 1 59 18	Kent	{ 10th March, Deptfd. Bdge. Police Stat.}	11.7	39.40	*026	•010	•000	*395	*405	3630	2*40	29 .
Column 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	Birmingham*	6th March, Birmingham Waterworks	_	24.30	•191	•020	•001	•277	-298	2463	1.29	18
	Column 1.	2.	8.	4.	5.	6.	7.	8.	9.	10.	11.	1

Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 9th March at the Horse Guards' cab-rank had a temperature of 9° 4 C.; 100,000 lbs. of it contained 28 10 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained 161 lb. of carbon and 031 lb. of nitrogen. The above quantity of water contained no ammonia, and 264 lb. of nitrogen in the form of nitrates and nitrites, whilst the total amount of combined nitrogen in every form was '295 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contaminated with animal matter equivalent to that contained in 2320 lbs. of average London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 2.00 lbs. of chlorine. Finally, 100,000 lbs. of the water contained 20.90 lbs. of carbonate of lime, or an equivalent quantity of other hardening or soapdestroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation

transforms the hardness in the Table into degrees of hardness on Clark's scale.

TABLE 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the TWELFTH Week of Ten previous Years.

						_						
	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Average of 10 Weeks.	1871
Males Females .	1980	1805	2231	1897	2101	2219	2224	2299	2177	2227	2116·0	2429
	991	884	1129	974	1091	1150	1147	1188	1121	1151	1082·6	1228
	989	921	1102	923	1010	1069	1077	1111	1056	1076	1033·4	1201
Males Females .	1214	1271	1624	1397	1634	1649	1731	1298	1590	1478	1488·6	1665
	617	637	822	729	805	854	832	685	800	771	755·2	840
	597	634	802	668	829	795	899	613	790	707	733·4	825

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 for raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

								-					
	Dec. 31.	Jan.	Jan. 14.	Jan. 21.	Jan. 28.	Feb.	Feb. 11.	Feb. 18.	Feb. 25.	Mar. 4.	Mar. 11.	Mar. 18.	Mar. 25.
ral Deaths	1760	1828	1896	1846	1632	1683	1749	1625	1633	1591	1601	1576	1665
aths under 5 years of age aths 5—20	672 150	651 142	660 135	650 156	601 142	603 139	640 166	642 142	627 163	643 174	652 162	616 150	643 151
aths 20—40 aths 40—60 aths 60—80 aths at 80 years & upwards	250 294 322 72	242 330 391 72	241 355 412 93	271 294 377 98	224 282 318 65	284 285 306 66	260 281 333 69	247 265 280 49	246 263 267 67	237 259 215 63	244 242 238 63	259 251 256 44	279 276 264 52
aths from Smallpox - , , Measles - , , Scarlet Fever - , Diphtheria - , , Whooping-cough , Typhus fever	110 29 110 8 49 10	79 34 112 4 36 10	135 27 77 9 38 10	188 17 68 6 51 5	153 12 65 8 47 10	196 12 49 6 43 11	211 9 46 10 51 13	218 11 48 8 58 11	227 15 47 2 54 12	213 15 53 11 53 14	194 14 54 9 67	185 13 93 3 55 10	205 10 36 6 48 12
", Enteric (or Ty-phoid) fever - Simple Conta fever - Diarrhœa - Simple Cholera -	21 13 6	18 9 19	17 11 17 —	12 17 17	14 5 10	15 13 14	14 16 14	15 9 14	15 7 14 1	17 5 13 1	15 7 15	16 17 9	14 6 9 1
, Phthisis Bronchitis	185 265 105 88	186 319 93 102	178 377 91 109	155 309 89 93	162 250 84 71	174 248 90 82	175 223 83 75	166 194 66 89	138 177 75 94	149 174 92 63	160 176 89 59	178 209 77 67	205 224 94 79
ean Temperature of the Air	25.7	31.1	33.0	37.1	32.4	34.9	41.6	42.7	43.8	45.7	46.3	41.7	47.1
ean Temperature of the Water of the Thames	-		-		. —	34.6	40.1	40.5	42.9	43.8	45.2	45.2	44.4
midity of the Air in-fall in inches	85 0·42	84 0·07	87 0·08	93 1·32	84 0·54	91 0·19	82 0·72	87 0·02	0.06	79 0·11	78 0·47	81 0·58	82 0·02

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase nce 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, nee the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, ottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it wing been represented to the Registrar General by the municipal authorities that the rate of increase in those was since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of habitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological servations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow bervatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in lenna is good enough to supply the returns for that city.

tenna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar eneral, and the results have been compiled by J. Glaisher, Esq., F.R.S.;—W. C. Ellis, Esq., F.M.S., Portsmouth; M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., Irmingham; H. Billson, Bsq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Mauchester; G. V. Vernon, Esq., F.R.A.S., R.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., radford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered and METEOROLOGY during the Week ending Saturday, the 25th day of March 1871, in the following large Towns.

CITIES  AND  BOROUGHS.	Area in Acres.	Estimated Population in the middle of the Year 1871.**	Persons to an Acre. (1871.)	BIETHS registered during the Week ending 25th Mar. 1871.	DEATHS registered during the Week ending 25th Mar. 1871.	(F.	Lowest during the Week.		TEMPERATURE OF THE AIR. (CENTIGRADE.)  Weekly Mean of the Daily Mean Values.	RAIN In Inches.	In Centimetre
Total of 20 Towns in the UNITED KINGDOM	213,281	7,336,941	34.4	5660	3919	72.9	29.0	47.6	8.67	1.15	2.92
LONDON +	77,997	3,258,469	41.8	2429	1665	70°9	30.2	47.1	8.39	0.02	0.02
PORTSMOUTH	9,513	125,464	13.2	106	36	67.0	34:0	46'6	8.11	0.00	0.00
Norwich -	7,472	81,787	10.9	55	34	68.2	30.0	46.0	7.78	0.00	0.00
BRISTOL	4,688	173,364	37.0	136	74			- 100			-
WOLVERHAMPTON -	3,387	74,438	22:0	65	29	64:1	35.7	47.1	8:39	0.00	.0.00
		378,574	48.3	298	193	66.2	85.0	47.7	8.72	0.00	0.00
BIRMINGHAM	7,831	101,367	31.7			70.5	33.2	48.2	9.00	0.00	0.00
LEICESTER	3,200	90,480		102	39	67.6	33'4	47.7	8.72		0.00
Nottingham	1,996		45°3 103°0	46	41		38.2	48.5	9.16	0.00	0.00
LIVERPOOL	5,108	526,225	84.2	415	413	65.7	35.0	49*6	9.78	0.00	0.79
MANCHESTER	4,486	379,140	84-9	309	191	71-2	99.0			0.31	
SALFORD -	5,172	123,851	23*9	115	53.	72.9	36'1	49.2	9.22	0.45	1.14
BRADFORD -	6,590	148,030	22.5	108	69	62.0	36.0	47.2	8.44	0.00	0.00
LEEDS	21,572	266,108	12.3	263	119	65.0	33.0	47.0	8.33	0.00	0.00
SHEFFIELD -	22,830	255,247	11.5	. 201	, 139	69.0	33.1	48.0	8.89	0.50	0.21
HULL C	3,562	135,195	38.0	87	57	67.0	29.0	43.7	6.20	0.00	0.00
SUNDERLAND -	3,306	103,037	31.2	. 69	44	******		party.	-		
NEWCASTLE-ON-TYNE		136,293	25.2	120	81	56.0	35.0	45.9	7.72	0.00	0.00
EDINBURGH -	4,427	179,944	40.6	132	94	59.7	40.0	50.1	10.06	0.10	0.25
GLASGOW -	5,063	477,627	94.3	374	360	61.5	32.2	48.6	9.22	0:07	0.18
DUBLIN -	9,745	322,321	33.1	230	188	67.1	30.2	48.8	9.33	0.00	0.00
D 1 6-3 , 5-2	10.000	0.010.07#				-				1 .	
PARIST	19,279	2,019,877	98			-	-	-	-	-	
BERLIN	15,451 9,212	800,000 622,087	68	1 117	11 - 1301			-		1 -	14 3
VIENNAT -	0,212	022,087	08		-	1					

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probable before the middle of the year, and will then be substituted for these estimates.

† No returns have been received this week from Paris or Vienna.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Wee ending Saturday the 25th day of March 1871.

L		ending 152	aturday	the Zat	in uay	v. 01 11	rai CII	10/1						
	ANNUAL				Th	e DEAT	ths reg	gistered	in the	Week in	nclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public
Total of 17 Towns -	27	3277	735	605	318	65	90	16	78	87	28	96	176	47
LONDON	27	1665	333	. 316	205	10	36	6	48	32	9	42	-100	282
PORTSMOUTH	15	36	12	. 12					. 1.	2	-	1	2	. 3
Norwich	22	34	12	7	- !		-		ļ	-	-	2	3	8
BRISTOL	22	74	18	17	-	-	-	-	-	2	2	2	8	6
WOLVERHAMPTON -	20	29	8 -	; 9 .	:				-	2	-	1	1	4
BIRMINGHAM	27	193	47	33	-	13	3	4	6	4	4	4	10	19
LEICESTER	20	. 39	9	10	٠	100	3	1, ;	2.	-		- 1	2	3
NOTTINGHAM	24	41	10	13	1 41		14	1 000 s	. dan.	100	1	10	1.	0
LIVERPOOL	41	413	114	. 63	97	10	10	3	11	14	2.	20	24	70
MANCHESTER	26	191	38	30	2	25	6	1	. 1	4	1	6.	9	27
SALFORD 10 4	22	53	10	10	1	3	1	-	-	5	-1	1	2	. 6
BRADFORD	24	69	16	8.	. ~	1	10	-	2	: 4	1	2		1
LEEDS	23	119	25	21	2	1	2	-	1	7	. 1	4	9	14
SHEFFIELD	28	139	39	21		2	7	2	4	6 -	5	5	6	9
HULL	22	~ 57	12	14		-	4	1 -	11.	1 4	1	1	1	1 7
SUNDERLAND	22	44	9	9			7		1	1		-	1 1-1	9
NEWCASTLE-ON-TYNE -	-31	. 81	23	12	11	-	1	-	1.		-	. 3	3	8
DUBLIN	30	188	38	40	1	-	9	1	4	6	1	4	4	67

TABLE 5 .- DEATHS in LONDON Registered in the TWELFTH Week of the Year 1871.

									in the I WEDFIR WEEK		2 000		-				
	ne. 11-70.	Sa	In t			endi: 1 25,			- 170 - 1	Averages of the Twelfth Week the 10 years 1861-70.	Sa	In t	he W	eek Jare	endi h 25,	ng 1871	
	Averages of the Twelfth Week the 10 years 1861-70.		Deat	hs of	Per	sons	of			Weel Weel		Deat	hs of the	Per	sons	of	
CAUSES OF DEATH.	rerage welfth 10 yes	ALL		der	. 40	. 60.	. 80.	and	CAUSES OF DEATH.	erage velith 10 yea	ALL	Un	der	. 1	60.	30.	pue
	Av T	Mean	-2	0.	under	40 and under	under	rds.			Mean		0.	under 40	under		
		Tem.	-5.	5-20.	and	and	60 and	0 Years upwards.		o ui	Tem.	-5.	5-20.	20 and 1	40 and t	and	Years
Mean Temperature -	39.2	-	-0-	2	20		9	08	Mean Temperature -	39.2	-	0	2	8	40	- 69	80
ALL CAUSES - :-	1488.6	1665 1656	643 638		279	276 275		52 52	9. Stricture of Intestines - 10. Fistula 11. Stomach Disease, &c	1·1 · 4 · 8·0	1 1 5	- 1	-	-	1 3	- 7 28	-
SPECIFIED CAUSES  I. ZYMOTIC DISEASES.	1407 0	1000	000		410	210	200		12. Pancreas Disease, &c	3·7	3	-	-	-	1 8	:	1
ORDER 1. 1. Small-pox	16.2	205	69	58	64	14	-	~	14. Jaundice	3.8 15.5 4	13 -	Ė	1	1	9	1 1 -	1
2. Measles	30.0 40.0 8.2 1.0	10 86 6	9 21 3	1 12 2	3	1		Ē	ORDER 5.	1.7	1		1	_	_	_	
5. Quinsy	16.6 10.6	1 14 48	1 14 46	-	-		-		2. Ischuria 3. Bright's Disease (Nephria) 4. Diabetes	10·7 1·9	13		-	ī	7	5	E
8. Typhus	47.9	12	3 4	2 2 2	1 2 2 2 2 2 2	3	2 2		5. Calculus (Stone) 6. Cystitis	1.2	1 2 4		- 1	1	-	ī	1
- Simple continued Fever -) 9. Erysipelas 10. Puerperal Fever (Metria)	5·4 4·7	6 15 4	9 -	-	2 2	2 2	1	1	7. Kidney Disease, 4c ORDER 6.	5.8			1	1		2	
11. Carbuncle	1°1 2°2	1 2	1	=	-	- - 1	1.1.1	E	1. Ovarian Dropsy 2. Uterus Disease, &c	4.5	5		-	2	-	3	ŀ
14. Diarrhea	12·5 ·3 •4	9	1 7 -	=	ī	2 -			ORDER 7.  1. Synovitis (Arthritis) -	- 3	7	-1	3	-	-	-	Ĺ
17. Remittent Fever	1:3 7:2	6	=	2	- 1	1	2	Ē	2. Joint Disease, &c ORDER 8.	4.2			3	2	1		Ē
19. Other Zymotic Diseases - ORDER 2. 1. Syphilis		13	-		-	1	_		1. Phlegmon	2·1 1·1 1·8	1		-	1	1	1	=
2. Stricture of Urethra - 3. Hydrophobia	6.0	-	11 - -	=	1 -		-	٨	IV. DEVELOPMENTAL DISEASES.								
4. Glanders ORDER 3. 1. Privation	7.0	-		_	-		_		Order 1.	01+0	15	15					
2. Want of Breast-milk -	1:3 7:5 1:5	10	10 2	1	1		-	-	1. Premature Birth 2. Cyanosis	21.0 2.6 1.2	15 2	15 2 -	-	-	=	-	E
3. Purpura and Scurvy - 4. Alco- (a Del. Tremens - holism) b Intemperance -	1.2	1 -	Ŀ		-	1 -	-		4. Other Malformations - 5. Teething	20.1	1 28	1 28	=	-	-	_	E
ORDER 4. 1. Thrush	2.5	2 -	2 -	-	-	-	-	-	ORDER 2.  1. Paramenia 2. Childbirth (see Puer-)	.1	13		-	- 9	- 8	-	ŀ
II. CONSTITUTIONAL DIS. ORDER 1.									peral Fever) }	6.5	10			9	-	-	
1. Gout	1.7 13.5 26.0	17 38	3	- 1	3	1 6 20	1 7 12	1 2	1. Old Age ORDER 4.	58.7	41		-	_	-	21	20
4. Cancrum Oris (Noma) - 5. Mortification -	·4 4·9	1	1	-			-	-	1. Atrophy and Debility -	58.7	. 51	45	-	-	2	4	
ORDER 2. 1. Scrofula 2. Tabes Mesenterica	7.9	8 18	6 17	1	1	-	-	H	V. VIOLENT DEATHS, &c. ORDER 1.								ı
8. Phthisis 4. Hydrocephalus	18 8 176 8 32 4	205 35	9 30	22 5	101	63	10		(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions	18.4	11		1	4	8	_	ı
III. LOCAL DISEASES.									2. Wounds	6.3	6 1 2 11	5	1	-	1	-	E
ORDER 1. 1. Cephalitis 2. Apoplexy	14°2 37°6	21 55	14 12	3	2 2 5	1 16	16	6 2	5. Drowning	5°4 8°8 2°3	11 3	10	-	1 - 1	- 2	ī	F
3. Paralysis	32.5 1.4 3	26 2	1 - -	1	-	4	14	2 - -	ORDER 3.						-		
6. Epilepsy 7. Convulsions 8. Brain Disease, &c	7:1 58:0 20:7	9 48 15	48 8	2 - 1	2 - 1	2 -4	2 - 5	1	(Homicide.)  1. Murder and Manslaughter	2.2	1	1	_	_	_	_	ı
ORDER 2.	2'4	5	-	-	3		1		OBDER 4. (SUICIDE.)								
2. Aneurism	63.9	79	ĩ	4	14	3 24	35	1	1. Wounds { Gunshot - Cut, Stab -	1.6	ī	-	-	-	-	ī	ŀ
ORDER 3. 1. Laryngitis 2 Bronchitis	10.6	9 224	8 86	1 8	10	32	82	11	2. Poison	1.6 .5 .5 1.3	8	=	-	2	1	-	
2 Bronchitis	2.9 91.0 16.7	94 8	59	3	3 11 1	1 12. 3	7 3	2	ORDER 5.	.8	-		-	-	-	-	
6. Lung Disease, &c ORDER 4.	18.2	16	8	-	3	1	4	-	(EXECUTION) 1. Hanging	_	-		-	-	-	-	
1. Gastritis	1.7 6.3 5.7 2.2	5 4 7 4 3	1 2 2	1	1 2	1 - 2	3 - 2	=	Violent Deaths (not classed)	•2		-	-	-	-	-	
4. Ascites	1'9	3 5	1	-	-	2 2 3	2 - 2	-	Sudden Deaths (Cause un-)	4.3	1		-	-	-	1	
6. Hernia	3.6 2.9 .7	5 2 -	ī -	-	-	-	-	1 -	ascertained)	16.7	8	5	1	1	1	-	
	1				-	-								-	-	_	-

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

-			1	. 1		_											11 66		8
the state of the s	REGISTRARS' SUB-DISTRICTS.		POPU- LATION, 1861.	Total Births during the Week.	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
San	LONDON -	•	2,803,989		1665	333	316	205	10	36	6	48	12	14	6	9	42	100	282
	WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS		458,125 618,210 383,321 571,158 773,175	392 522 240 565 710	278 406 181 333 467	65 66 41 88 73	56 82 37 48 93	27 64 14 37 63	3 1 - 4 2	5 10 3 8	2 1 1 - 2	8 18 11 8 8	3 - 1 8	5 - 2 7	1 3 - 2 -	2 2 1 4	7 12 7 5 11	22 34 17 13 14	29 100 37 42 74
	WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington WH - Kensington Town WL - Brompton H - St. Peter Hammersmith H - Fulham WILLL - Chelsea North-west HWw - Chelsea North-east L - Hanover Square - May Fair W - Belgrave HH - St. John Westminster WW St. James's Square - Golden Square W - Berwick-Street - St. Anne Soho HH -	нн -	39015 38769 51910 18198 5415 19104 15539 21634 19899 21886 19773 12885 55113 87483 30730 10753 13966 10607 17428	47 18 62 27 4 19 17 21 17 12 24 44 30 18 7 17 10 13	31 20 33 10 2 15 9 12 15 10 9 1 1 36 25 22 4 10	12 5 12 1 -2 2 6 2 4 1 -7 2 5	THE BOOKEN SEE SELLESS	4 1 - 1 - 2 - 2 8 9	2	1114121 41411414		222111111111111111111111111111111111111	TELEVIEW TO THE TOTAL	111111111111111111111111111111111111111	THE PERSON OF TH	111111111111111111111111111111111111111	-211	3477	36111-1-21-4266-11-1
	NORTH DISTRICTS.  All Souls Marylebone HH — Cavendish Square — Rectory Marylebone WH — St. Mary Marylebone H — Christehnreh Marylebone — St. John Marylebone — Hampstead WHH — Regent's Park Fancras — Tottenham-court wH — Gray's Inn Lane H — Somers Town W — Camden Town W — Lalington West; Hakhow WWHH — Stoke Newington L — Stamford Hill — West Hackney — Hackney WwHL — South Hackney L —		29952 15090 26092 22493 34913 32540 19106 34927 29371 27808 39099 44817 75442 75482 6618 5483 24205 31481 15458	24 7 7 24 31 24 20 19 30 13 16 21 11 47 60 93 7 7 19 30 19	15 6 18 9 14 21 27 19 25 16 18 11 40 84 64 2 - 9 82 6	2 1 4 2 4 6 3 4 8 1 6 1 1 8 -	335314 34 457535 80 1 131	1 -6 19 1 1 3 2 -3 12 1 -1 12 1	THE RESIDENCE OF THE PERSON OF	TITLIBUTE TO THE STATE OF THE S		1222	THE PRINCE STATE	1 - 2	1		3111122	1 - 1 6 2 1 3 5 5 6 - 1 1	2 8 - 6 19 - 11 3 7 4 7 16 10 1
日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	CENTRAL DISTRICTS. St. George Bloomsbury - St. Giles South WH - St. Giles North - Long Acre - Charing Cross WH St. Mary-le-Strand - St. Clement Dames H - St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell W - Amwell Clerkenwell - Pentonville - Oswell-street - Did-street - City-road WHHL - Whiteeross-street - Finsbury - St. Botolph East London HH ripplegate - St. Sepulchre H - St. Bride W - Lastle Baynard - Durenhithe - Lalinallows Barking - Broad Street - St. Bride W - Lastle Baynard - Durenhithe - Lalinallows Barking - Broad Street - Broad Street - St. Bride W - Lastle Baynard - Durenhithe - Lalinallows Barking - Broad Street - Broad		17392 19483 17201 11618 11071 10346 15207 12947 12947 12947 12915 17259 16200 11594 17860 14778 12981 12981 10657 1762 1078 1762 1762 1762 1762 1762 1762 1762 1762	10 23 7 4 2 4 6 14 7 8 10 11 11 16 8 27 14 6 8 9 4 9 4	6 9 12 4 7 15 16 10 18 9 6 8 5 6 2 8 4 11 1 4 1 7 2 1	124 2 3 3 1 - 2 4 - 2 2 4 5 1 2 - 2 1	1884-9184-881-884-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	3 1 2 1 1 3 1 1	THE STATE OF THE S	THE THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF TH	THE STATE OF THE S	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE LEFT CONTROLLED TO SERVICE AND THE PARTY OF THE PARTY	THE PROPERTY OF THE PARTY OF TH		COLUMN TRACTICITATION CONTRACTOR	111111111111111111111111111111111111111	1 2 2 1 1 - 1 2 2 1 1 - 1 1 2 2 1 1 1 1	1 4 6 7 7 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

101

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

Saturday, 25th March 1871.																	
117		during	during				The I	EATE	is reg	istere	d in t	the W	eek ir	iclude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS duthe Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch — — — — — — — — — — — — — — — — — — —	17313 19188 26516 25777 23260 17310	5 9 24 17 25 21	7 11 9 13 13 13	3 2 3 7 4 2	2 1 1 - 3	2 5 - 1 4 4	111111	- 1 - -	111111	111111	111111	111111	111111	111111	11111	111111	1 1 - 3 -
Hackney-road Green, Bethnal Green WHL† - Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	30 34 26 25	11 20 15 9	2 7 2 3	5 -	3 2 6 -	1111			1111	1 -	1	- 1 -	1111	1111	1111	
Artillery Whitechapel Soitalfields	6557 15700 15392 12122 8062 11166 9971	8 10 21 9 4 5	4 9 10 3 11 6 6	1 3 2 - 1 -	1 2 4 1	1 2 - 3 1	1	1	1111111		111111	111111	111111	1111111	1110111	1	5 11
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	24 17 7	11 8 6	2 2 1	2 2 -	1 -	-	- ī	-	1 -	111	111	1 -	-		-	- 8
Shadwell W Ratcliff WH Limehouse W	12537 16874 27161	5 8 32	7 10 12	1 1 4	1 1 2	Ξ	-	=	-,	1	111		-	-	-	- 1	3 -
Mile End Old Town West Mile End Old Town East WwH Bow WwHL†	33747 39317 35667	34 57 62	14 30 31	6 11 10	6 3	=	ī	1 -	-	1 1	-	-	-	ī	1	1	2
Poplar WH	43529	41	34	8	6	9	2	-	-	-	-	1	-		1	9	9
Christchurch Southwark   W   St. Saviour Southwark   H   Kent-road   Borough-road   W   H   London-road   L   London-road   L   London-road   St. Peter Walworth   W   H   London-road   St. Mary Newington   H   London-road   London-road	17069 19101 19652 16668 19190 22675 44463 15082	12 16 10 7 9 17 32 11	9 12 13 10 9 11 24 10	2 3 - 2 1 3 7	3222 - 345	1 2 2 1 1 2 5 -	1111111	1	1111111	1 - 2	1 -	1	1111111		1	1	1 - 2 1 - 4
St. Olave Southwark H St. John Horsleydown W	7663 11393 16696 16505 25154 24502	2 9 12 20 30 26	21 2 12 9 27 9	1 1 4 1	3 4 1 2	- 3 1 3 1	111111		111111	2 -	- - - 1	1	11111	1	4	6	19 1 - 2 - 3
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30/85 20440 20067 7462	9 22 23 39 19 23 21 4	7 4 7 23 20 10 28 8	1 - 2 5 4 1 1	1 4 5 2 1 1	- - 1 1 1 19 2	- - - -	1 3 - 1 -		111111	- I - -	- 1 1 1 -	1111111	1111111		1 1 -	1 - 5 - 19 -
Clapham HL Battersea W	20894 19600 13346 6481 10082	22 50 16 5 3	15 23 7 3 1	4 2 1 1	2 3 4 -	5 6 1 -		1		-			11111	1 -	1	1 -	1 3 -
Dulwich Camberwell WL†L† Peckham W St. George Camberwell	1723 21297 28135 20333	24 38 32	1 14 18 17	2 3 3	1 6 12 4	- 2 -	1111	1			- 1	- - 1		1111	1	1 1 1	4 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	48 8 7 9	19 1 5 12	3 - 5	1 1 2 3	1	1116	2		1111		1111	1111	- - 1	1	1,	5
Eltham - Lee Lee Lewisham Village W Sydenham	3009 11003 7372 10595	4 6 13 9	8 5 3 5	- - 1	1 1 3		1	1 1 1 1				-	1111	1111	ri i i	11.1	11
Charlton H - Woolwich Dockyard Woolwich Arsenal H	9276 22919 18776 } 24502 {	6 12 20 6 9	3 8 9 2 8	1 2 5 1 -	1 1 2	1	11111	101111	11111	2	1	-	11111	11111	1	11111	

The following are OUTLYING WORKHOUSES (indicated in the Tables by 10):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - " " Tottenham-court sub-district.
London City - " " Heington East.

London City - " Bow sub-district.

Bow sub-district.

Stepney - " " Bow sub-district.

Bow sub-district.

Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

# [Under the Superintendence of the Astronomer Royal.]

TABLE 7. NETECTION OF ORSERVATIONS GREEN THE ROTAL DESERVATION, GREENWICH, GUING THE WEEK ENGINE SAURGAY, 2007 MARCH, 1871.

				- 11				Met	eoro	logic	al C	bse	rve	ations.		-1,11	- 1	-11		"
				ouozo		:	:::	::	:	:	56		nean	hose n at dry	five laily and	well	rage erva- erva-	d as	bout per-	ik to
RAIN.	Collected	Gauge	-	above the ground.	Inches	0.00	00.00	0.00	0.05	Sum 0.02	95		ve the r	t with the take eter, the	S., from	include P.M., as	The average ical observa-	nderstoo	of register of a set the sufficient	the wee
		Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	92	107 199 141	158	124	Sum 947	24		feet aho	dered to be coincident with those The observations are taken at adjuge of the barometer, the dry times are converted into mean	sher, F.R. 1848. The	column 7, and 9h.	to each. ermometr ing 1863,	<i>igher,</i> " an	use of se at the de tered und	inning of on the 22 ek.
П	eters.		refoot	Mean of 24 Obs.	lbs.	0.0	0.0	0.0	0.0	:	653		he 159	to be observed by the second of the second o	es Glai part 1, daily	ed in h. P.M.	pplied the th	ad "h	by the Ship regis	A.M.
	nemom		on squa	Least.	lbs.	0.0	0.00	0.0	0.0	:	652		ed to	Siderec The readin	y Jam	xhibit	eing a from 50 yea	+ is reservati	ained Police	st the by 9h, nd of
WIND.	from /	ļ	Pressure on square foot	Great-	lbs.	0.0	0.3	1.5	8.0	:	101		nsider	re con neter. of the	nced b	ibers (M.; n	tions blaisher	d that ical ob ght.	ascert rpion' frumer	n Poli o 12 in 96 in. t the e
	As deduced from Anemometers	Osler's.		P.M.		S. by W.	SW. & SE. SW. & SSW. ENE. & F. ber S	SSE. &	SW & SSW.	able.	07	NOTES.	meter is oc	barometer are considered to be coincident with those andard barometer. The observations are taken at The means of the readings of the barometer, the dry properties of the properties the dry	ctions dedr	or the nunead at 9h. A	oper corrected by Mr. Greenwich,	meteorolog ht to midni	Thames is of the "Scool these ins	Metropolita used from; 3 assed to 29 s 29.75 in. a
			General Direction.	A. M.		E. & SSW.	SSW. SW. SSW. &	E. & ENE. E. by N.	ESE.& WSW.	Variable.	19		The height of the cistern of the barometer is considered to be 159 feet above the mean	level of the sea. The readings of the barometer are considered to be coincident with those of the Royal Society's flint glass standard barometer. The observations are taken at the A.M.; noon; Sh. Pai, and Sh. The means of the readings of the barometer, the dry the armometer and the west those more of the converted into mean.	daily values by the application of corrections deduced by James Glaisher, F.R.S., from free years' observations ending 1845, December 31.—See Phil. Trans., part 1, 1848. The mean daily dew point and degree of humidity are deduced from those mean daily values of the dry and	when the internometers by chainers high commencial raises, south edition. The results for mean daily temperature of the air, or the number schiblied in column? include the other words of the day, the number schiblied in column? include the other words of the day the meant of the include the other words of the day the meant and this way to the number schiblied in column? Include the other words of the day the meant and this way to the column the meant of the day as well column to the meant of the meant of the day to the meant of the	as are resulted structured from the manner and minimulates, as well-instituted the well-instituted the well-instituted the self-registering thermometers, the proper corrections being applied to each. The average insperature of the air is that determined by Mr. Glasher from the thermometerical observations taken at the Royal Observationy, Greenwich Mr. in the 50 years ending 1863, December 31.	* In reading the 17th column it will be borne in mind that + is read "higher," and - "loner," than the average. The results of all the meteorological observations are to be understood as applying to the evril day, or from midnight to midnight to the day of from midnight to the will be set to be understood as	ater of the	Henderson, R.E., Commissioner of Metropolitan Police. The reading of the barometer decreased from 30 '12n' at the beginning of the week to 29' 86 in. by 3h. P.M. on the 20'dit; increased to 29' 86 in. by 9h. A.M. on the 24th; and was 29' 75 in. at the end of the week,
Degree	midity,	Satura-				98	86 87 92	32	64	82	18		cistern	ty's flin	application of the property of	ters by perature dry ther	hermom air is th Royal Ok	th colum he resul day, or 1	of the wanded frogree. The resident	B., Comine baron on the 2-
100 E	Between	perature of	mean tem-	the same day on an average of 50 years.*	~ 0	+ 3.0	+ 8 +	+ 7.3 + 111.1	+11.6	+ 4.9	17	•	zht of the	level of the sea. The readings of the of the Royal Society's flint glass st bit. A.M.; noon; 3h. P.M.; and 9h. P.M. thermometer and rhe wet thermometer.	es by the ervations e	daily temi ns of the	gistering the or the or the or	ding the 17 verage. To the civil	nperatura eters, suspone the sur	n, R.E., C. tding of the oy sh. P.M.
DIFFERENCE	Point	911		Least.	0	0.0	0.0	0.0	65.3	0.5	16		he heis	the B.	y valu	mean ervatio	self-re	In read n the a lying t	he ter rmome et belc	nderso he res 86 in. 1
DIF	Between Dew Point	and Air Temperature	dimperat	Great-	0	12.9	13.5	15.3	6.03	15.6	15	·	-	5995						
	Betwe	Air 7	Mean	daily value.		4.0	4000	0.8	12.0	5.4	14	25		loudless	ring the	; after-	s; very	and very	during the	rening t betor
	In the Water of	the Thames at	self-registering Thermometers	Lowest	c	42.5	43.0 43.2 41.2	44.0	43.8	42.1	13	3.		ernoon; e	cloudless; during the Cloudless at night.	prevailed	Foggy in the early morning hours; very	cloudless		and cloudless till the evening; shower of rain fell just before
				Highest.	c	45.1	45.4 45.4 45.6	45.9	47.6	46.0	12	PHERI		and aft	was clou	light fog	arly mor	orning;	l heavy	oudless r of rai
TERS.	Lowest on the	0 %	a self- register-	25.2	c	35.0	28.8 27.1 23.2	30.4	29.7	28.5	=	AND ATMOSPHERE		morning	the sky rally clou	ng and soudy.	7 in the e	in the m	Haze, fog, and heavy dew	y showe
THERMOMETERS	Highest in the sun, as	shown by a self-regis-	Thermo Thermo	bulb in vacuo, pluced on the Grass.		0.04	96.5 103.8 98.5	123.6	124.2	103.6	10	SKY AND A		Very cloudy and misty in the morning and affernoon; eloudless at night,	early morning hours the sky was	in the early morning and slight fog prevailed; after-fine and partially cloudy.		Thin cloud and fog prevailed in the morning; cloudless and very ne through the remainder of the day.		the morning; fine erwards. A heavy
DINGS OF	Dew	Point,	Mean	value.	0	41.2	41.5 38.6 38.0	44.5	41.9	41.7	6	T.		ly and n	ly morr the me	n the e	hrough	and for	lly cloudless.	in the mori
READIR			Mosn	value.	0	45.5	45.6 42.1 40.2	53.3	53.9	47.1	00			ry eloue ght,	In the enremainder or	Overcast i	Cloudless throughout.	Thin cloud	Generally morning.	Cloudy in overcast aff midnigut.
	) ne	.2.	Range	day.		15.6	22.2 23.7 23.0	31.2	0.13	25.3	-	-	_	at ni	remg	Ward	- 4	#	Ge	
	-	-	Low-	est,		40.5	35.3 32.4 30.2	34.9	40.0	35.6	9				sion.		strong	strong		ty was
-			High-			55.8	57.5 56.1 53.2	66.1	0.49	6.09	us .	HITY.		ughout.	able ten		nerally	neral!y		the melectrici
BARO-	Mean	reading (cor-	and re-	32 degr. Fahren-	in.	30.015	29.882 29.898 29.922	29.808 29.646	29.712	29.840	4	ELECTRICITY		Weak positive throughout.	with vari	sitive.	with ge	with ge	sitive.	sitive in on; no ny other t
MOON.		Phases	Jo	Moon.		:	New In Equator	::	:	:	90	EL		Weak pos	Positive, with variable tension	Weak positive	Positive, with generally tension.	Positive, with generally strong tension.	Weak positive.	Weak positive in the morning and afternoon; no electricity was shown at any other time.
			DAY.		ı,	19	8228	24	25		nmns			19	20	12	- <del>*</del> -	8	**	23
		1871.	MONTH AND DAY.		MARCH.	SUNDAY	Monday Tuesday Wednesday	THURSDAY. FRIDAY.	SATURDAY.	MEANS	No. of Columns	DATE.	MARCH.	SUNDAY .	MONDAY .	TUESDAY .	WEDNESDAT	THURSDAY.	FRIDAY .	SATURDAY.

LONDON : Printed by GEORGE E. EXER and WILLIAM SPOTTISWOODE, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Office.

# WEEKLY RETURN

OF

# BIRTHS AND DEATHS IN LONDON

OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 13. 1871. Vol. XXXII.]

WEEK ENDING SATURDAY, APRIL 1.

General Register Office, Somerset House, 3d April 1871.

[Price 1d.

DURING the week ending Saturday the 1st instant, 5684 births and 3575 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality in the week was at the rate of 25

deaths annually to every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 25 per 1000; Portsmouth 16, Norwich 17, Bristol 21, Wolverhampton 15, Birmingham 21, Leicester 23, Nottingham 21, Liverpool 36, Manchester 27, Salford 27, Bradford 18, Leeds 23, Sheffield 19, Hull 20, Sunderland 22, and Newcastle-upon-Tyne 24. The fatal cases of small-pox in these towns, were 275 last week, against 294 and 318 in the two previous weeks; 192 were returned in London, 73 in Liverpool, 2 in Newcastle-upon-Tyne, 3 in Portsmouth, 2 in Manchester, and one each in Birmingham, Salford, and Sunderland. The annual death-rate from small-pox was equal to 7 per 1000 last week in Liverpool, and to 3 in London. The fatality from measles had declined in both Manchester and Birmingham.

In Edinburgh the annual rate of mortality from all causes last week was 30 per

1000 persons living, in Glasgow 35 per 1000, and in Dublin 25.

In Brussels the death-rate in the week ending 25th ultimo was 42 per 1000; the fatal cases of small-pox were 37, against 32 and 38 in the two previous weeks. In the City of Bombay the deaths registered during the week ending 7th ultimo were 303 (exclusive of still-born), and the mortality was at the annual rate of 19 per 1000. In the City of Madras 244 deaths were registered in the week ending 17th February, showing an annual death-rate equal to 30 per 1000 of the population. In the City of New York the deaths registered in the week ending 11th ultimo were 524, and the equivalent annual rate of mortality was 29 per 1000.

A return just received from Holland shows that small-pox was terribly fatal in some of the larger towns during January last. In Rotterdam of 605 deaths, showing an annual death-rate of 59 per 1000, 205 were fatal cases of small-pox; in Utrecht the 365 deaths included 162 from small-pox, and gave a death-rate equal to 72 per 1000; and in The Hague of 646 deaths, 392 resulted from small-pox, and the annual death rate in the month was equal to 83 per 1000 of the population. It is to be regretted that the Dutch returns are so much in arrear as not to show the progress or decline of the epidemic since the end of January last.

In London 2284 births and 1564 deaths were registered last week. After making due allowance for increase of population, the births were 160, and the deaths 123, below the average numbers in the corresponding week of the ten

previous years.

Seven deaths of persons aged 90 years and upwards were registered last week, of which one was a farmer who died in West Plumstead sub-district, and was

reported to have attained the age of 100 years and 8 months.

Zymotic diseases caused 368 deaths, including 192 from small-pox, 13 from measles, 33 from scarlet fever, 6 from diphtheria, 41 from whooping-cough, 31 from fever (of which 7 were certified as typhus, 13 as enteric or typhoid, and 11 as simple continued fever), and 14 from diarrhoea; thus to the seven principal diseases of this class 330 deaths were referred last week, against 341 and 346 in the two preceding weeks. Excepting a slight decline in the fatal cases of small-pox, the numbers of deaths from these diseases showed but slight variations upon those in the previous week.

[13.]

The fatal cases of small-pox in London, which had been 227, 213, 194, 185, and 205 in the five previous weeks, declined again to 192 in the week ending last Saturday. In seven permanent and temporary hospital for this disease, 60 deaths were recorded last week. After distributing, so far as is practicable, these deaths in hospital among the districts from which the patients were admitted, it appears that 17 deaths from small-pox last week belonged to the West group of Districts, 50 to the North, 17 to the Central, 51 to the East, and 57 to the South. The fatal cases last week in the different groups of districts showed but slight variations from the numbers in the previous week; they were, however, more numerous in the St. Pancras District including Somers, Camden, and Kentish Towns. Not a single fatal case was returned in Marylebone. In Shoreditch and Bethnal Green Districts the disease continues very fatally prevalent.

To different forms of violence 52 deaths were referred last week; of these 44 were accidental, including 14 from fractures and contusions, 12 from burns and scalds, 8 from drowning, 7 from suffocation, and 2 from poison; 5 of the deaths from burns resulted from the recent conflagration in Chelsea. Seven of the violent

deaths were cases of suicide.

Seven of the 14 deaths from fractures and contusions were fatal accidents caused by horses or vehicles in the streets; five were of children and two of adults, all run over, three by vans, two by cabs, and one each by an omnibus and a cart. In the thirteen weeks of the first quarter of this year, ending last Saturday, 48 deaths in London have resulted from this class of accidents, against 50 and 43 in the corresponding period of the two years 1869 and 1870, respectively.

In the large Public Institutions of the Metropolis 286 deaths were registered last week, showing a proportion of 18.3 per cent, of the total deaths; of these 139

occurred in Workhouses, and 136 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.99 in.; the highest was 30.28 in. on Tuesday morning, and the lowest was 29.75 in. at the beginning of the week. The mean temperature of the air was 43° · 8, or 0° · 2 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 67°·4, on Sunday, the lowest night temperature 31°·2 on Tuesday; the entire range of temperature in the week was, therefore, 36°·2. The highest temperature in the sun was 120° 8 on Sunday. The mean temperature on Sunday, 26th ultimo, was so high as 55° 3, and 12° 8 above the average; on Tuesday it had fallen to 37° 9, and was 5° 3 below the average. The difference between the mean dewpoint temperature and air temperature averaged 7° 5. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 47° 5 last week. The mean degree of humidity of the air was 75, complete saturation being represented by 100. The general direction of the aviad was N.N.E., and the horizontal movement of the air amounted to 11 miles per hour. No rain fell during the week, except on Thursday morning, and then only to the amount of :03 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 39°·6 in Hull, to 45°·9 in Portsmouth; the lowest recorded night temperature was 28°·0 in Salford, and the highest day temperature in the shade 70°·5 in the same town. Rain was measured last week in each of these towns, except Portsmouth, Birmingham, Manchester, and Leeds; the amounts varied from '01 of an inch in Liverpool and Salford, to '52 in Nottingham.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 6°.55; the highest day temperature in the shade was 19°.67; the lowest night temperature was 0°.45 of frost; the highest temperature in the sun was 49°.33. The mean temperature of the corresponding week of 50 years averaged 6°.44, or 0°.11 below the temperature of last week. The wind blew at the rate of 18 kilometres an hour, and the rain-fall was .08 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 194,322 cubic metres, and at Barking 254,627 cubic metres, equivalent to about as many tons by weight.

Note.-A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

ARLE 1. LONDON .- Births and Deaths Registered LAST WEEK, and in the THIRTEENTH Week of Ten previous Years.

Total Births Males Females .	1974 1974 1031 943	1862 2124 1041 1083	1863 2158 1085 1073	1864 2153 1072 1081	2166 1090 1076	1866 2107 1082 1025	1867 2489 1254 1235	1868 2308 1170 1138	1869 2319 1132 1187	1870 2421 1247 1174	Average of 10 Weeks.  2221 · 9  1120 · 4  1101 · 5	2284 1145 1139
TOTAL Deaths  Males Females	1236 618 618	1360 683 677	1594 807 787	1679 868 811	1676 841 835	1582 821 761	1601 824 777	1320 670 650	1670 838 832	1625 832 798	1534°3 780°2 754°1	784 780

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

TABLE AT LOCKED													
	Jan.	Jan. 14.	Jan. 21.	Jan. 28.	Feb.	Feb.	Feb. 18.	Feb. 25.	Mar.	Mar. 11.	Mar. 18:	Mar. 25.	Apr.
OTAL Deaths	1828	1896	1846	1632	1683	1749	1625	1633	1591	1601	1576	1665	1564
Deaths under 5 years of age -	651 142	660 135	650	60I 142	603 139	640 166	642 142	627 163	643 174	652 162	616 150	643 151	613 139
Deaths 20—40	242 330 391 72	241 355 412 93	271 294 377 98	224 282 318 65	284 285 306 66	260 281 333 69	247 265 280 49	246 263 267 67	237 259 215 63	244 242 238 63	259 251 256 44	279 276 264 52	251 241 271 49
Deaths from Small-pox ,, Measles , Scarlet Fever , Diphtheria	79 -34 112 4 36	135 27 77 9 38	188 17 68 6 51	157 12 66 8 47	196 12 49 6 43	211 9 46 10 51	218 11 48 8 58	227 15 47 2 54	213 15 53 11 53	194 14, 54 9 67	185 13 33 3 55	205 10 36 6 48	192 13 33 6 41
Whooping-cough Typhus fever Enteric (or Ty-)	10	10	5	10	11 15	13	11	12	14	5	10	12	7
phoid) fever - f , SimpleContafever , Diarrhea - , Simple Cholera -	9 19	11 17	17 17	5 10 —	13 14	16 14	9 14	7 14 1	5 13 1	7 15	17 9 —	6 9 1	11 14
n phthisis n Bronchitis n Pneumonia - n Heart Disease -	186 319 93 102	178 377 91 109	155 309 89 98	162 250 84 71	174 248 90 82	175 223 83 75	166 194 66 89	138 177 75 94	149 174 92 63	160 176 89 59	178 209 77 67	205 224 94 79	162 193 72 69
Mean Temperature of the Air	31.1	33.0	37.1	32.4	34.9	41.6	42.7	43.8	45.7	46.3	41.7	47.1	43.8
Mean Temperature of the Water of the Thames	-	-		-	34.6	40.1	40.5	42.9	43.8	45.2	45.2	44.4	47.5
Humidity of the Air	84	87	93	84	91	82	87	81	79	78	81	82	75
Rain-fall in inches	0.07	0.08	1.32	0.24	0.19	0.72	0.02	0.06	0.11	0.47	0.58	0.02	0.03

Note.—The population of Cities and Boroughs in 1870 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, since the last census, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observationy; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistical Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Cecles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Cecles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Liverpool; Esq., F.G.S., F.M.S., Leicester; M. S., Glaisher, Esq., F.G.S., F.M.S., Liverpool; A. W. Lyall, Esq., Newcastle-on-Tynes

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 1st day of April 1871, in the following large Towns.

		ist day o.	April	10/1, 111 6	10110 1111	g mige	TOWN	13.			_
CITIES	Area	Estimated Population	Persons	Births registered	DEATHS registered		TURE OF		TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FA
BOROUGHS.	in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 1st April 1871.	during the Week ending 1st April . 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Come
Total of 20 Towns in the UNITED KINGDOM -	213,281	7,336,961	34.4	5684	3575	70.5	28.0	43.0	6.11	0.07	0
LONDON	77,997	3,258,469	41.8	2284	1564	67.4	31.2	43.8	6.22	0.03	0
PORTSMOUTH	9,513	125,464	13.2	77	38	64.0	29.2	45.9	7.72	0.00	0
Norwich	7,472	81,787	10.9	59	27	64.0	32.0	40.6	4.77	0.15	0
BRISTOL	4,688	173,364	37.0	133	70	úm.	_				
WOLVERHAMPTON -	3,387	74,438	22.0	45	22	64.2	28.5	42'3	5.43	0.08	0
BIRMINGHAM	7,831	378,574	48*3	284	149	67.0	30.0	43.4	6.33	0.00	0
LEICESTER	3,200	101,367	31.7	87	45	67.5	29.7	42.8	6.00	0.02	0
NOTTINGHAM	1,996	90,480	45.3	- 80	37	70.4	30.4	44.7	7.06	0.52	1
LIVERPOOL	5,108	526,225	103.0	379	363	65.0	30.3	42.9.	6.06	0.01	0
MANCHESTER	4,486	379,140	84.5	267	198	68.0	31.0	43.6	6*44	0.00	0
SALFORD	5,172	123,851	23.9	108	64	70:5	28:0	42.3	5.73	0.01	0
BRADFORD -	6,590	148,030	22.5	158	. 52	64.0	32.0	43.5	6.39	0.02	0
LEEDS	21,572	266,108	12.3	266	119	66.0	33.0	44.2	6.78	0.00	0
SHEFFIELD	22,830	255,247	11.2	244	94	58°5	32.4	42.4	5.78	0.09	0
HULL	3,562	135,195	38.0	89	51	57.0	29.0	39.6	4.22	0.12	0
SUNDERLAND	3,306	103,037	31.2	130	44			Migrapor	-		
NEWCASTLE-ON-TYNE	5,336	136,293	25.5	125	62	55.0	31.0	39.7	4.28	0.13	0
EDINBURGH	4,427	179,944	40.6	158	104	63.7	37.0	46°5	8°05	0.00	0
GLASGOW	5,063	477,627	94.3	432	318	55.4	27.0	42.5	5*84	0.00	0
DUBLIN	9,745	322,321	33*1	279	154	57.2	27.0	43.0	6.11	0.02	0
Parist	19,279	2,019,877	98		_	_		_	_	_	
BERLIN	15,451	800,000	52	1,000		_		_			
VIENNA†	9,212	622,087	68	-	-	-	-	-		-	

The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probe available before the middle of the year, and will then be substituted for these estimates.
 No returns have been received this week either from Paris or Vienna.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the W

		ending	Saturday	the 1	st day	01 A	. prii	18/1.					
	ANNUAL RATE				Th	e DEAT	rus reg	istered	in the	Week i	nclude		
BOROUGHS, &c.  (Municipal Boundaries for all except London.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.
Total of 17 Towns -	25	2999	688	573	275	60	77	18	74	86	30	114	203
LONDON	25	1564	317	320	192	13	88	- 6	41	31	14	52	111
PORTSMOUTH	16	38	9 .	8	3.	1	1	-	-	1	_		-
Norwich	17	27	6	10	-	1	1	-	2	-	^_	1	3
BRISTOL	21	70	14	17	-		7	-		2		4	5
WOLVERHAMPTON .	15	22	9.	6	-	- 1		-	-	-	1		
BIRMINGHAM	21	149	41	20	1	10	3	1	6	3	2	13	18
LEICESTER	23	45	18	10	~		8	1.		3	-, .	3	4
NOTTINGHAM · ·	21	37	11	10	7 %	(	2	2	:		-		
LIVERPOOL	36	368	85	64	73	13	14	-	10	20	2	14	20
MANCHESTER	27	198	50	31	2	15	2	-	1	4	3	5	9
SALFORD	27	64	19	8	1	8	1	2	1	1.	3	3	5
BRADFORD	18.	- 52	13	. 9		1	5	-	-	2	-	- 4.	6
LEEDS	23	119	34	15	-	1		3	5	8	2	. 4	5
SHEFFIELD	19	94	23	16	, se	-	2		4	1	1	2 .	6
HULL	20	51	6	12	-	2	2	-	-	5	2	6.	. 7
SUNDERLAND	22	44	16	10	1	- 1	1	2	2	1	-	Ψ,	-
NEWCASTLE-ON-TYNE •	24	. 62	17	7	2	1		1	2	4	_	3	4
DUBLIN	25	154	29	33	-	2	7	-	13	9	2	3	3

TABLE 5 .- DEATHS in LONDON Registered in the THIRTEENTH Week of the Year 1871.

TABLE 5.—	DEATH	э ш ,	LON	DO.	10	cgis	tere	u II	the Thirteenth Week	OI (I	ie ie	ai i		1.			
	eek 31-70.	8	In t	he V day,	Veek Apri	endi l 1, l	ng 871.			of the 1 Week rs 1861-70.	S	In t	he V	Veek Apri	endi	ng 871.	
,	Averages of the Thirteenth Week the 10 years 1861-70		Deat	ths o	f Per	sons	of			h We		Deat		f Per	sons	of	
CAUSES OF DEATH.	erage rteen 10 yes	ALL	Un		40	.00	.80	and	CAUSES OF DEATH.	Averages of Thirteenth V the 10 years 1	ALL	Und		40.	.00	.80.	and
	Thi in the	AGES. Mean	2	0.	under	under	under	rs a.	· ·	Thin the	AGES. Mean	20	-	under 40	under	under	
		Tem.	ا د د	-20.	and	40 and	and	y Years upwards.		43.6	Tem.	-5.	-20.	and	40 and	60 and under 80	vears nowards
Mean Temperature -	43.6	43.8	-0	2-2	130		- 6	8-	Mean Temperature -			0-1	5-	20		99	08
ALL CAUSES SPECIFIED CAUSES	1534.3	1564 1553	613 603		251 251	241 241	271 270	49	9. Stricture of Intestines - 10. Fistula 11. Stomach Disease, &c	*6 *3 6·2	2 1 4	-	-		2 - 3	1	
I, ZYMOTIC DISEASES.	1010 0	1000		100	201		210		12. Pancreas Disease, 4c. – 13. Hepatitis – – 14. Jaundice – – –	4'1 3'3	3 2	 - 1	=	Ξ	ĩ	2	1
ORDER 1, 1. Small-pox	16.1	192	79 13	51	49.	10	3		15. Liver Disease, &c 16. Spleen Disease, &c	15.2	16 1	1 1	2 ~	2	6	4	1 -
2. Measles	33.7 40.4 9.1	13 33 6	13 24 4	8	1	-		B	ORDER 5.	1'7		_	_		-	_	-
5. Quinsy	1.5 19.1 74.3	6 1 15 41	15	-	Ŀ	-	-	B	1. Nephritis	10°1 2°5	15	1 1	-	5 2	3	7	-
8. Typhus	52.2	13	37 2 4	81 - 4241	- 2 3 1 1 3	ī	1	- 1	5. Calculus (Stone)	1.1 8.2	2	- 1	- 1	1 2	- 3	1 4	
9. Erysipelas 10. Puerperal Fever (Metria) 11. Carbuncle	7·8 5·3	11 10 4	14	=		6 3 1	1 2		ORDER 6.	-8							
12. Influenza 13. Dysentery	1·1 1·0 1·2	ī ī	1,		- 1:	-	-	-	1. Ovarian Dropsy 2. Uterus Disease, &c	3.6	2	-	=	-	ī	1	E
14. Diarrhea – – – 15. Simple Cholera – – 16. Ague	13.7	14	8 -	-	E		4	1 -	ORDER 7.  1. Synovitis (Arthritis) - 2. Joint Disease, &c	*2 4·9	1 7	-	3	2	1 -	- 2	-
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	1.0 8:7 2	5		1 2	2		1	I	ORDER 8.	2.9	2 1	_		1	_	1	Ī
ORDER 2.	6.6	8 2	7	-	_	1	-		2. Ulcer 3. Skin Disease, &c	1:1	1 -	-	=	-	-	1.	-
2. Stricture of Urethra 3. Hydrophobia	1.3	2 -	-		1 6 3	1	1 -	B	IV. DEVELOPMENTAL DISEASES.								
ORDER 3.	1.3	-	-	-	-		_		ORDER 1. 1. Premature Birth	19:2	26	26	_	-	-	_	-
2. Want of Breast-milk - 3. Purpura and Scurvy - 4. Alco-j a Del. Tremens -	7·2 2·3 1·9	1 3 2	1	1	2	1	-	H	2. Cyanosis	1.1	3 - 3	3 - 3	-	-	-	-	E
holism ( b Intemperance -	1.3 1.3	-		-			-		5. Teething ORDER 2.	20.0	16	16	-		_	-	
1. Thrush	1.8	1 -	1	-	-	-	=		1. Paramenia 2. Childbirth (see Puerperal)	5.3	6	7.1	-	6	-	-	E
ORDER 1.									Fever) (	58.3							21
1. Gout	2·3 15·8 29·3	11 30	1	-	8 2	5 16	3 2 12		1. Old Age ORDER 4.		53	-	-			32	21
4. Canerum Oris (Noma) - 5. Mortification	4°7	6	-		-	-	4	2	1, Atrophy and Debility -	59.7	70	60	-	2	1	7	
ORDER 2. 1. Scrofula	10.8 18.1	10	5 7	2	1	2	-	-	V. VIOLENT DEATHS, &c. ORDER 1.								
3. Phthisis	178·7 39·5	162 31	7 8 29	19	84	42	9 -	-	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions 2. Wounds	17:6	14	-	6	2	6	-	-
III. LOCAL DISEASES. ORDER 1.									3. Burns and Sealds 4. Poison 5. Drowning	7'3 '7 4'3	12 2 8	5 1	3	1 4	3 -	1 2	E
1. Cephalitis	15'7 38'6 33'7	15 38 34	11	1	8 4	1 9 4	20 22	- 4	6. Suffocation 7. Otherwise	9.9	7	7	-	-		-	E
3. Paralysis	2'4 '2 8'4	3 1 5	-	-	1.	3 - 2	111		ORDER 3. (HOMICIDE.)								
7. Convulsions 8. Brain Disease, &c	62.6 51.3	72 23	70 5	2 2 1	1	6	9	<u>-</u>	1. Murder and Manslaughter	2.3	1	-	-	1	-	-	E
ORDER 2.  1. Pericarditis 2. Aneurism	3°1 3°2	3 5	-	2	3	1	ī	H	ORDER 4. (SUICIDE.)								
3. Heart Disease, &c ORDER 3.	67.0	69		2	16	30	20	1	1. Wounds {Gunshot - Cut, Stab	1.2	2 1	1 1	-	-	1	1	E
1. Laryngitis 2. Bronchitis	11.7 198.4 3.2	16 193	13 69	5 1 4	5	1 31	68	15	3. Drowning	1:7	2 2		-	-	2 2		E
4. Pneumonia	94°4 15°9 14°1	72 5 19.	43	4	9 1 4	9 3 3	7	-	ORDER 5.								
ORDER 4.	1'3	-	-		1	-			1. Hanging		-	-	-	_	-	-	E
2. Enteritis	5°8 2°9 2°7	4 7	1 2	1 2	1	- 1	1 2 1	-	Violent Deaths (not classed)	•3		-	-	-	-	-	E
4. Ascites 5. Ulceration of Intestines - 6. Hernia 7. Ileus	3.0	1 4 7 2 4 4 5 2	1	-	3	1 2	1	1	Sudden Death's (Cause un-) ascertained)   Causes not specified or ill-)	2.4	1	1	~	-	-	-	-
7. Ileus 8. Intussusception	2.6	.2	ī	ĩ	-	3 -	-	1	defined	15.1	10	9	-	-	-	1	

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

# 18 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

ABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

													au	ing i	пе	vv ee	k en	nng
			during	during				The 1	DEATE	is reg	istere	d in t	he We	ek ind	lude			
REGISTRARS' SUB-DISTRICTS.		POPU- LATION, 1861.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON -	2	,803,989	2284	1564	317	320	192	13	83	6	41	7	13	11	14	52	111	286
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS SOUTH DISTRICTS		458,125 618,210 383,321 571,158 773,175	330 511 186 508 749	229 858 154 342 481	26 72 24 82 113	58 73 31 67 91	11 74 11 37 59	2 1 - 3 7	10 2 5 4 12	3 3	8 9 1 9	- 2 1 2	3 2 1 4	1 4	1 3 1 3 6	14 7 8 15 8	17 20 10 44 20	43 76 85 65 67
West Districts.  3t. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Brompton H - 5t. Peter Hammersmith - 5t. Paul Hammersmith H - Fulham WLLLL - Chelsea South HH - Pulsea North-west HWw - Chelsea North-		39018 36769 51910 18198 5415 19104 15539 21654 19899 21886 19773 12885 55113 37483 30730 10753 13966 10607 17428	33 9 70 6 - 38 19 18 9 14 6 9 35 22 15 7 7	19 19 39 5 18 4 8 11 13 7 11 26 15 17 27 7	314112 - 2 - 2 11323 1 -	38131 - 61 1422 157221 - 111	1 1 1 1 32 1 3	211111111111111111111111111111111111111	1 1 1 1 1 8 1 1 1 1 1 1	1	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	1	1	Arrent mentalement		31	22 44 6 
NORTH DISTRICTS. All Souls Marylebone HH — Cavendish Square — Rectory Marylebone WH — St. Mary Marylebone H — Christehurch Marylebone — Hampstead WHH — Regent's Park Pancras — Tottenham—court wH — Gray's Inn Lane H — Somers Town — Camden Town W — Lestington West* WHHH — Islington West* WHHH — Islington East Www — Stoke Newington L Stamford Hill — West Hackney WHL — Hackney WwHL —		29952 15990 26692 22493 34913 32540 84927 29371 27808 39099 23266 44317 75442 79899 6608 5483 24265 31481 15458	25 6 16 16 18 14 17 20 21 23 19 16 48 82 79 6 11 9 35 30	12	3 1 1 4 1 6 3 2 7 2 1 2 2 8 4 16 	22 27 5 -1 5 32 13 5 7 6 11 2 -4 7	20 3 1 4 2 2 4 7		1	ming mining mini	1 2 2	2	1 - 2	1		2 - 1 - 2 1	3 1 1 2 1 2 5 8 + 2 -	21 - 31 - 52 6 4 - 25 -
CENTRAL DISTRICTS.  3t. George Bloomsbury - 3t. Giles South WH - 5t. Giles North - 5t. George-the-Martyr HHH 5t. Andrew East Holborn W 5affron Hill 5t. Jamed Clerkenwell W 5affron Hill 5t. Botolph East London HH 7ipplegate - 5t. Sepilehre H 5t.	-	17392 19483 17201 11618 11071 10346 15207 12947 12012 12012 12012 12017 12012 17250 13079 16200 11504 17780 14778 12931 20990 14778 12931 20990 11504 11750 11750 11850	6 5 7 6 8 8 8 18 10 12 20 6 6 6 8 8 4 1 1 3 5 5 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 11 5 8 8 4 13 8 8 8 8 9 4 11 14 4 5 9 5 8 10 10 10 10 10 10 10 10 10 10 10 10 10	2 1 1 1 2 2 2 1 1 1 1 2 2 2 1	15111-333111122-3322-33	111111111111111111111111111111111111111		111111111111111111111111111111111111111						THE THE PROPERTY OF THE PARTY O	1 2 2 1 1 1	2 2 2 1	idi iki6 iki6iiliidilidiliili

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H.—Hospital;

L.—Lunatic Asylum;

w-A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 10

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 1st April 1871.

Saturday, 1st April 1871.		h. 1														,	
		during	during				The D	EATH	s regin	-	in the	11	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS dithe Week.	Total DEATHS dithe Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enteric (or Typhoid) Fever	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
EAST DISTRICTS.  Holywell Shoreditch	17313 19188 26516 25777 23260 17310	11 20 23 22 21 21	5 10 16 16 27 13	2 2 7 2 6 5	1 2 4 7 3	3 3 4 2	111111	Thin!	111111	111111	1	11111	1	1	31	- 3 5 4 5	8 5 7
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	22 46 24 14	11 40 4 9	4 5 1 -	11 - 3	3 2 1	1 7 1 1	1 -		1111	1141	1 .	1111	1111	2 -	11	17
Artillery Whitechapel Spitalhelds	8557 15700 15892 12122 8062 11166 9971	2 18 8 8 4 8 3	2 3 16 6 10 4 4	3 2 1 2 1	2 1 6 2 1 1	- 8		111111			111111	111111	111111	2 -	- 4	1 5 1	7 8 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	15 14 15	10 10	2 3 4	1	-	=	=	=	-		111	111	1.1.1	1	2	7
Shadwell W	12537 16874 27161	7 10 18	4 8 9	1 1 2	1 - 3		- 1	= 1	=	-	7 =	1.11			1 -	1	ī
Mile End Old Town West Mile End Old Town East WwH -	88747 89817	26 45	25 26	3 7	5	2 2	1 -	1	"	1 2	1 -	-		· -	-	1 2	2
Bow WwHLt	35667 43529	46 37	35 20	10 6	6 1	4	1	1 -	-	2 2	-	-	-	-	2 -	1	3
SOUTH DISTRICTS.  Christchurch Southwark W St. Saviour Southwark H Kent-road Borough-road WH London-road L Trinity Newington St. Peter Walworth W St. Mary Newington H	17069 19101 19652 16668 19190 22675 44463 15082	12 15 10 14 16 9 39 7	10 8 5 13 12 13 40 9	3 3 - 3 4 2 6 2	1 2 1 3 1 2 9 -	3 2 6 3 5 -	1111-	11111111	11141111	1111113		1111111		1 - 1 - 2 -	111111	1 2 1	1 - 3 1 - 10 3
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	7663 11393 16696 16505 25154 24502	2 16 8 45 21	10 3 4 6 21 18	- 1 1 6 1	1 2 4 2	1 1 2 6	111111	111111	11111	1		111111	11111	13 1 1 1 1	2	1 3	10 - 2 - 1
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	10 23 21 35 31 29 12 11	5 11 10 25 14 11 83 9	2 8 2 4 6 1 4	- 2 6 5 9	1 1 - 2 1 13	1	1 1 8 8 1 1 1	111111	2	1111111		1	- - - 1 -		2 2 2 -	9 - 12 1
Clapham HL	20894 19600 13346 6481 10082	21 47 9 8 6	20 22 10 3 2	4 6 2 - 1	7 3 2 2 1	4 8	11111	1 -	11111	1 - 1	11111			11111	1111	1	3.1
Dulwich	1723 21297 28135 20333	5 17 31 31	13 18 13	- 4 4 5	- 3 7 2	1 -	- - 1	1171	1111	1	1111	1111		1111		1111	ī
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH Greenwich East	37834 8139 21696 18306	46 4 16 20	16 5 5 17	3 2 1 3	2 1 4	1 -	1:	1	1 -	1111	1111	1	1 - 1	1111	1 2	1 1 1 2	9
Eltham - Lee Lee Lewisham Village W Sydenham	3009 11008 7872 10595	3 4 3 19	4 5 3 3	1 1 2	1 1 2 -	1111	1111	2 -		- - 1	1111		1 1 1 1	1		1,111	1
Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead West	9276 22919 18776 } 24502 {	8 16 28 9 15	2 9 10 7 4	1 2 4 3	- 1 1 -	ī - 1		11111	1 -	1 2 -	111,611	111	1111	1	1	1	11111

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand - , , Tottenham-court sub-district.
London City - , , Islington East.

Do. do. - , , , Hackney sub-district.

Stepney - , , Bow sub-district.

Stepney - , , Bow sub-district.

For Her Majesty's Stationery Othce.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 1st Arrit, 1871. [Under the Superintendence of the Astronomer Royal.]

Meteorological Observations. superintendence of the resident inspector on board the ship, by permission of Lieut.-Col. Henderson, R.E., C.B., Commissioner of Metropolitan Police. The reading of the baroneter increased from 29.75 in. at the beginning of the week to 30.78 in. by 9h. P.M. on the 28th decreased to 29.77 in. by 9h. P.M. on the 28th decreased to 29.77 in. by 9h. P.M. on the 31st of March, and was 29.80 in. at the end of the week. noon: 3B, a.c. or and 9B, P.M. The means of the readings of the barometer, the dry themrometer, and the wet thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Glaisher, F.M.S., from five sears observations ending 1845, December 31.—58e Phil. Trans, part 1, 1845. Them mean daily dew point and degree of humding 1845, December 31.—58e Phil. Trans, part 1, 1845. The mean daily we built the promoters by Glaisher's Hygrometrical Tables, Fourtfu edition. The results for mean daily engineering of the day and for mean daily engineering of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 91. A.m.; noon; 3B, P.M.; and 91. P.M.; as well tions taken at the Royal Observatory, Greenwich, in the 50 years ending 1863, December 31.

"In reading the 17th column it will be borne in mind that is read "higher," and "loner," than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight to midnight. ozone. : : The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the thermometrical observa-The observations are taken at 9h. A.M. surface is 5 in. above the ground. in a Gauge Inches 00.0 Sum 0.03 level of the sea. The readings of the barometer are considered to be 159 feet above the of the gayal Society's finit glass standard barometer. The observations are taken at the promise. 0.00 00.0 RAIN. 00.0 00.0 25 Amount of Horizontal Robinson's. of of Air 352 351 173 Sum 1928 329 221 24 Pressure on square foot, Mean 0.4 0.0 0.5 1.0 0.1 23 As deduced from Anemometers. Least. 0.0 0.0 0.0 0.0 0.0 : 22 Great-5.8 3.5 1.8 1.3 est. 21 Jsler's. ENE. & SE. & E. E. & NNE. NNE & NE. NOTES WNW.& NNE. N. by E. N. by E. SE. & E. P. M. General Direction. 20 NNE W. by S. & WNW. N. by E. NNE. A.M. 19 Degree of Hu-midity, Satura. tion being repre-sented by 100. 67 85 78 74 15 18 perature of the day and mean temon an average the same day perature of mean tem-++12.8 6.0 1.9 4.2 0.5 17 ı + 1 + DIPPERENCE 3.6 Least. 4.4 6.5 5.6 4.6 Between Dew Point 3.1 16 Air Temperature. 21.2 9.6 16.2 14.3 10.7 13.8 15.3 Greatand 15 ARÉ. Overcast in the morning, and a little thin rain fell; light clouds throughout the remainder of the day. Lunar corona and faint aurora at night. Overcast 9.1 6.9 7.5 Mean daily value. 14 rain little 1 46.0 the l'hames at Greenwich, by self-registering lighest, Lowest, 47.5 45.2 45.5 44.5 46.8 morning. 13 Very variable throughout the day, but generally fine. 4 AND ATMOSPHERE. A fine day. Small amounts of cloud prevalent. 49.0 48.6 49.8 48.9 48.1 49.6 48.6 12 Cloudy till the afternoon; then variable. between 8h. P.M. and 9h. P.M. the Highestin Lowest the sun, as on the shown by Grass, as a self-regisoccasionally during bulb in vacuo, Minimum placed on the Thermo-Grass. meter. 33.2 31.0 24.2 26.4 32.0 25.0 29.1 28.7 a self-1 READINGS OF THERMUMETERS, tering Thermo-meter with 120.8 107.8 81.8 87.8 0.06 95.4 Overcast. Hazy and foggy. 10 SKY 28.8 32.8 36.3 67.4 44.1 23.3 55.3 44.4 55.0 38.4 16.6 44.6 40.4 36.5 00 Generally cloudy. Dew Point. Mean fell 6 38. Thin rain 37.9 40.4 43.1 Mean 43.8 daily value. 46.3 00 14.7 31.4 15.9 11.8 14.8 15.9 Range 14.1 dav. ü 7 Dry. 45.9 31.2 1 38.0 40.0 35.2 86.9 A little weak positive at times in the day; strong negative at night. No electricity was shown during the day; strong positive at night. the est. 9 Positive, with variable tension. A little weak positive in afternoon; no electricity shown at any other time. 8.64 54.1 50.0 52.8 Weak positive was shown. Weak positive throughout. ELECTRICITY. est. Weak positive generally. 5 32 degr. Fahren heit). 29.792 30-171 29.843 981.67 daily 30.237 985 30.101 Mean and re--100) in. 29. FirstQr. Greatest Dec. N. MOON. Phases Jo 8 No. of Columns. 30 MONTH AND DAY. 31 30 27 31 MARCH. WEDNESDAY SATURDAY . 1871. APRIL. MEANS SATURDAY . | THURSDAY THURSDAY. DATE. WEDNESDAY FRIDAY . MARCH. I'UESDAY APRIL. MONDAY SUNDAY MONDAY FUESDAY SUNDAY FRIDAY

### WEEKLY RETURN

#### **DEATHS** AND BIRTHS IN

# AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 14. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, APRIL 8. Price 1d.

> General Register Office, Somerset House, 10th April 1871.

During the week ending Saturday the 8th instant, 4511 births and 3541 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week was at the rate of 25

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the SEVENTEEN ENGLISH CITIES and Towns, in the order of their topographical arrangement, were as follow:—London 24 per 1000; Portsmouth 19, Norwich 24, Bristol 22, Wolverhampton 16, Birmingham 22, Leicester 26, Nottingham 20, Liverpool 38, Manchester 29, Salford 23, Bradford 21, Leeds 20, Sheffield 22, Hull 21, Sunderland 21, and Newcastle-upon-Tyne 28. The fatal cases of small-pox in these towns were 302 last week, against 318 and 275 in the two previous weeks; 214 were returned in London, 77 in Liverpool, 6 in Newcastle-upon-Tyne, 3 in Manchester, and one each in Portsmouth and Sunderland. These numbers showed an increase both in London and Liverpool. The annual death-rate from small-pox was equal to 8 per 1000 last week in Liverpool, and to 3 in London. The fatality from measles is still excessive in Manchester and Birmingham, and scarlatina shows an increasing prevalence in Sheffield.

In Edinburgh the annual rate of mortality from all causes last week was 22 per

1000 persons living, in Glasgow 33 per 1000, and in Dublin 27.

In Brussels 135 deaths occurred in the week ending 1st instant, and the annual death-rate was 35 per 1000; 32 fatal cases of small-pox were reported against 38 and 37 in the two previous weeks.

In the City of New York 499 deaths were registered in the week ending

18th ultimo, and the equivalent annual rate of mortality was 28 per 1000.

In Bombay the deaths registered during the week ending 14th March were 357, and the mortality was at the annual rate of 23 per 1000. In Madras 252 deaths were registered in the week ending 24th February, showing an annual death-rate equal to 31 per 1000 of the population.

In London 2100 births and 1493 deaths were registered last week. After making due allowance for increase of population, the births were 305, and the deaths 127, below the averaged numbers in the corresponding week of the last ten years; this is probably in great measure due to the fact that Good Friday

is all but a dies non for registration purposes.

Zymotic diseases caused 402 deaths last week, including 214 from small-pox, 15 from measles, 36 from scarlet fever, 6 from diphtheria, 53 from whooping-cough, 29 from different forms of fever (of which 8 were certified as typhus, 11 as enteric or typhoid, and 10 as simple continued fever), and 7 from diarrhea; thus to the seven principal diseases of this class 360 deaths were referred last week, against 346 and 330 in the two preceding weeks.

The fatal cases of small-pox in London during the past ten weeks have been remarkably stationary; in the nine weeks ending 1st instant the weekly numbers ranged between 185 and 227, averaging 205. Last week the number was 214, showing an increase of 22 upon the previous week. In six permanent and

[14.]

temporary hospitals for this disease 76 deaths were recorded last week. After distributing, so far as is practicable, these deaths in hospital among the districts from which the patients were admitted, it appears that 18 deaths from small-pox last week belonged to the West group of Districts, 53 to the North, 16 to the Central, 55 to the East, and 72 to the South. The fatal cases showed a considerable increase in the South Districts, especially in Battersea, where 12 of the 28 deaths were referred to this disease, in addition to 2 which occurred in the Hospital at Stockwell. In the District of St. Pancras the disease continues fatally prevalent in Somers Town and Kentish Town.

To different forms of violence 43 deaths were referred last week; of these 35 were accidental, including 18 from fractures and contusions, one from burns and scalds, 7 from drowning, 7 from suffocation, and one from poison. Eight of the deaths from fractures and contusions were caused by horses or vehicles in the streets, three being cases of "run over," and five the result of falling from different kinds of vehicles; two were of children, and the remainder of adults.

Five cases of suicide and two of homicide were recorded during the week. In the large Public Institutions of the Metropolis 257 deaths were recorded last week; thus of each 100 deaths in the week 17 occurred in these Institutions, of which 6 were registered in Workhouses, and 11 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.86 in.; the highest reading was 30.05 in. on Thursday evening, and the lowest 29.58 in. on Monday morning. The mean temperature of the air was 43°·1, or 2°·1 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 56° 7 on Monday; the lowest night temperature 29° 1 on Friday; the entire range of temperature in the week was, therefore, 27° 6. The highest temperature in the sun was 119°8 on Friday. The mean temperature slightly exceeded the average on Monday and Wednesday, but was below the average on each of the other days; on Monday and Wednesday the mean was 45° 6, while on Thursday it was only 39°2, and 6°2 below the average. The difference between the mean dew-point temperature and air temperature averaged  $7^{\circ} \cdot 0$ . The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 45° 7 last week. The mean degree of humidity of the air was 76, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air in the week averaged 10 miles per hour. No rain fell during the week, except on Monday morning, and then only to the amount of '01 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 39°·6 in Norwich to 45°·4 in Portsmouth; the lowest recorded night temperature was 25°·0 in Leicester; and the highest day temperature in the shade 60°·0 in Portsmouth and Manchester. Rain was measured last week in each of these towns, the amounts varying from ·01 of an inch in Portsmouth

to 27 in Leeds.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 6°·17; the highest day temperature in the shade was 13°·72, the lowest night temperature showed 1°·61 of frost, and the highest temperature in the sun was 48°·78. The mean temperature of the corresponding week in 50 years averaged 7°·33, or 1°·16 above the temperature of last week. The wind blew at the rate of 16 kilometres an hour; and the rain-fall measured '03 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 183,417 cubic metres, and at Barking 228,937 cubic metres, equivalent to about as many tons by weight.

Note.-A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FOURTEENTH Week of Ten previous Years.

TOTAL Births  Males Females	2000 1012 988	2095 1085 1010	1863 1972 955 1017	2013 1018 995	2208 1113 1095	2274 1175 1099	2340 1158 1182	2375 1192 1183	2225 1133 1092	2358 1207 1151	Average of 10 Weeks.  2186.0 1104.8 1081.2	2100 1095 1005
Total Deaths Males Females	1220	1299	1475	1501	1680	1574	1453	1346	1550	1631	1472·9	1493
	627	674	795	768	857:	809	752	658	829	859	762·8	- 760
	593	625	680	733	823	765	701	688	721	<b>7</b> 72	710·1	- 733

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	Jan. 14.	Jan. 21.	Jan. 28.	Feb.	Feb.	Feb. 18.	Feb. 25.	Mar.	Mar. 11.	Mar. 18.	Mar. 25.	Apr.	Apr.
Total Deaths	1896	1846	1632	1683	1749	1625	1633	1591	1601	1576	1665	1564	1493
Deaths under 5 years of age - Deaths 5-20	660 135	650 156	601 142	603 139	640 166	642 142	627 163	643 174	652 162	616 150	648 151	613 139	573 157
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	241 355 412 93	271 294 377 98	224 282 318 65	284 285 306 66	260 281 333 69	247 265 280 49	246 263 267 67	237 259 215 63	244 242 238 63	259 251 256 44	279 276 264 52	251 241 271 49	262 238 196 67
Deaths from Smallpox -  "" Measles - "" Scarlet Fever - "" Diphtheria "" Whooping-cough "" Typhus fever - "" Enteric (or Ty-) "" phoid) fever - "" Simple Conta fever	135 27 77 9 38 10 17	188 17 68 6 51 5	153 12 65 8 47 10 14	196 12 49 6 43 11 15	211 9 46 10 51 13 14	218 11 48 8 58 11 15	227 15 47 2 54 12 15	213 15 53 11 53 14 17	194 14 54 9 67 5 15	185 13 33 3 55 10 16 17	205 10 36 6 48 12 14	192 13 33 6 41 7 13	214 15 36 6 53 8 11
" Diarrhea - Simple Cholera -	17	17	162	174	175	166	14 1 138	13 1 149	160	9	9 1 205	162	181
,, Phthisis, Bronchitis, Pneumonia, Heart Disease -	178 377 91 109	155 309 89 93	250 84 71	248 90 82	223 83 75	194 66 89	177 75 94	174 92 63	176 89 59	209 77 67	224 94 79	193 72 69	149 67 81
Mean Temperature of the Air	33.0	37.1	32.4	34.9	41.6	42.7	43.8	45.7	46.3	41.7	47.1	43.8	43.1
Mean Temperature of the Water of the Thames -	-	-	-	34.6	40.1	40.5	42.9	43.8	45.2	45.2	44.4	47.5	45.7
Humidity of the Air	87	93	84	91	82	87.	81	79	78	81	82	75	76
Rain-fall in inches	0.08	1.32	0.54	0.19	0.72	0.02	0.06	0.11	0.47	0.28	0.02	0.03	0.01

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow. Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statisties in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar-General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Pertsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Gold Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 8th day of April 1871, in the following large Towns.

		•	-			0 0					
CITIES	Area	Estimated	Persons	Births registered	DEATHS registered		ATURE OF		TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALL.
AND BOROUGHS.	in Acres.	Population in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 8th April 1871.	during the Week ending 8th April 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	În Inches.	In Centi- metre
Total of 20 Towns in the United Kingdom -	213,281	7,336,961	34.4	4511	3541	60.0	25.0	42.4	5.78	0.10	0.25
LONDON	77,997	3,258,469	41.8	2100	1493	56.7	29.1	43.1	6.17	0.01	0.03
PORTSMOUTH	9,513	125,464	13'2	78.	45	60.0	30.0	45'4	7.44	0.01	0.03
Norwich	7,472	81,787	10.9	52	- 38	53.0	26.0	39.6	4.22	0.02	0.13
BRISTOL	4,688	173,364	37.0	115	. 74		-		-	-	
WOLVERHAMPTON -	3,387	74,438	22.0	45	23	54.8	30.2	42.6	2,83	0.55	0.26
BIRMINGHAM	7,831	378,574	48.3	255	158	57.0	27.6	43.9	6.61	0.13	0.33
Leicester	3,200	101,367	31.7	59	50	57.0	25.0	42.1	5.62	0.07	0.18
NOTTINGHAM	1,996	90,480	45°3	54	35	54.9	26.8	41.2	5.11	0.03	0.08
LIVERPOOL	5,108	526,225	103.0	290	. 380	53.9	31.9	42.7	5.95	0.04	0.10
MANCHESTER	4,486	379,140	84.5	254	208	60.0	29.8	43.4	6*33	0.08	0.50
SALFORD \-	5,172	123,851	23.9	89	55	58.8	29.8	42.4	5.78	0.10	0.25
BRADFORD	6,590	148,030	22.5	64	60	53.0	29.8	41.5	5*28	0.05	0.02
LEEDS	21,572	266,108	12.3	110 .	102	53.0	29.0	41.3	5.17	0.27	0.69
SHEFFIELD	22,830	255,247	11.2	174	107	54.0	25.8	40.6	4.77	0.07	0.18
Hurr	3,562	135,195	38.0	72	54		-	-		-	-
SUNDERLAND	3,306	103,037	31.2	43	42	-	-	-	-	-	-
NEWCASTLE-ON-TYNE		136,293	25.5	74	73	49.0	32.0	39.8	4.33	0.18	0.46
EDINBURGH	4,427	179,944	40.6	137	75	53.7	40.0	44.8	7.11	0.30	0.76
GLASGOW	5,063	477,627	94.3	343	304	55°4	30'4	42.9	6.06	0.11	0.28
DUBLIN	9,745	322,321	33.1	108	165	59.0	27.5	44.0	6.67	0.02	0.13
								1			

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d instant, will probable available before the middle of the year, and will then be substituted for these estimates.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Weel ending Saturday the 8th day of April 1871.

				التناك										
	ANNUAL				Th	e DEAT	rns reg	istered	in the	Week in	iclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public
Total of 17 Towns -	25	2997	670	527	302	71	89	10	94	86	34	82	152	413
LONDON	24	1493	306	263	214	15	36	6	53	29	7	43	86	257
PORTSMOUTH	19	45	9	12	1	-	1	-	1	3		3	8	3
Norwich	24	38	9	9	-		1	-		1	1	1	3	4
BRISTOL	22	74	13	21		1	6	-	-		1	4	4	6
WOLVERHAMPTON -	16	23	4.	6		-	ζ-,	-	-	1	-	~	-	2
BIRMINGHAM	22	158	40	21	₩.	17	5	-	13	10	11	7	11	16
LEICESTER	26	50	12	9		-	5	-	1	2		-	3	à
NOTTINGHAM	20	- 35	_ 13	10		-	~	- 7	~		-	2	1	3
LIVERPOOL	38	380 .	91	57	77	13	8	1	12	8	4	13	15	67
MANCHESTER	29	208	46	33	3	19	6	-	8	9	-	4	13	27
SALFORD	23	. 55	17	6	-	2	1-	-	2	1	2	-	2	3
BRADFORD	21.	60	14	12	-	COM	2	-	1	4	2		,=	. 2
LEEDS	20	102	16	22	-	2	1	1	3	6	1	1	2	5
SHEFFIELD	22	107	25	19	-	•	12	1	. 3	8	1	2	3	3
HULL	21	54	13	13		2	1	-	-	3	3	1	1	8
SUNDERLAND	21	42	10	6	1		3	1	2	~	1	1	1	1
NEWCASTLE-ON-TYNE -	28	73	32	8	6.	-	2	-	-	1	-	-	-	4
DUBLIN	27	165	. 17	47	-	<b>-</b> ,	6	=,	4	7	4	3	4	65

TABLE 5 .- DEATHS in LONDON Registered in the FOURTEENTH Week of the Year 1871.

TABLE 3.	DEATH	э ш.	LOR	יטעי.	N T	regn	ster	eu i	n the Fourteenth wee	ok of th	16 16	аг	187	1.			
	of the h Week is 1861-70.	Sa	In t	he W	eek April	endi 8, 1	ng 871.		.,	of the h Week s 1861-70.	s	In that	he W	eek Apri	endi	ng 871.	٦
GAMARIA ON DELAMINA	es of t nth W ars 186		Deat	hs of the	Per Age	sons s	of		airrana án na mar	es of the Wars 186		Deat	hs of the	Peri	sons	of	
CAUSES OF DEATH.	Averages of Fourteenth the 10 years	ALL AGES.		der	or 40.	er 60.	er 80.	and	CAUSES OF DEATH.	Averages of Fourteenth the 10 years 1	ALL AGES.	Uni 20		under 40.	. eu.	Mr. 80.	and
	in th	Mean Tem.			d under	d under	d under	Years upwards.		Av Fou in the	Mean Tem.				d under 60		Years upwards.
Mean Temperature -	46.0	43.1	0-5.	5-20.	20 and	40 and	60 and	T 08	Mean Temperature -	46.0	43.1	0-6.	5-20.	20 and	40 and	60 an	N 08
ALL CAUSES	1472.9	1493	573	157	262	238	196	67	9. Stricture of Intestines - 10. Fistula	8 2	ī	-	-	-	-	-	-
8PECIFIED CAUSES 1. 2YMOTIC DISEASES.	1456.8	1490	570	157	262	238	196	67	11. Stomach Disease, &c 12. Pancreas Disease, &c 13. Hepatitis -	3'4	1 4 - 2	1	=	1	1	1 -	-
ORDER 1.	17.6	214	71	59	66	18	_		14. Jaundice	13.6 3.8	13	1 -	-	2	1 2 10	1	=
2. Measles 3. Scarlet Fever (Scarlatina) 4. Diphtheria	36.1 39.7 8.5	15 36 6	14 21 3	1 12 3	2	ī -	-	1111	ORDER 5.	1.8	-		-	_	_	_	-
5. Quinsy	1°2 · 15·7 69·5	17 53 8 11	17 52	1	1 1 1	1 1 1 1			2. Ischuria – – 3. Bright's Disease (Nephria) 4. Diabetes – – –	10·3 1·3	10		1	1	5 1 1	3 -	-
8. Typhus	49.7	11 10 13	1 2 2 3	3	6 2 2 4 1	4 - 4	3 2		5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	7 7.8	1 6	7.1	=	- 8	1	1	1
9. Erysipelas 0. Puerperal Fever (Metria) 1. Carbuncle 2. Influenza	7·3 3·9 •4	2 -	0	-	1	1 -		-	ORDER 6.  1. Ovarian Dropsy 2. Uterus Disease, &c	*5 4·1	1 4	- 1	-	- 3	3	ī	-
3. Dysentery	1°0 13°5 *4 *8	7 -	1 4 -			1	î :	1	ORDER 7.  1. Synovitis (Arthritis) -  2. Joint Disease, &c	*3 5*2	- 8	- 1	- 3	ī	3	-	-
7. Remittent Fever 8. Rheumatism 9. Other Zymotic Diseases -	7'1 7'1	1 8 -	-	î	4	-	3 -	-	ORDER 8. 1. Phlegmon	2°4			-	1	_	_	7
ORDER 2.	7:1	3	3	-	ī	=	-	-	2. Ulcer	1.6	1 1	1	_	-	=	=	-
2. Stricture of Urethra - 3. Hydrophobia 4. Glanders	,=		Ξ	-	-	=	-	-	IV. DEVELOPMENTAL DISEASES. ORDER 1.								
1. Privation	8·8 2·1	3 4	3 2	- 1	- - 1	-			1. Premature Birth 2. Cyanosis 3. Suina Bifida	22·2 2·0 1·7	24 2 1 1 18	24 1 1	1	-	-	-	=
3. Purpura and Scurvy - 4. Alco- \( a \) Del. Tremens - holism \( b \) Intemperance -  ORDER 4.	2.6	3	=	=	1 1 2		- ī		3. Spina Bifida 4. Other Malformations - 5. Teething	1.6 24.3	18	18	=	-	-	-	=
1. Thrush	2.2	3 -	3 -	-	-	-	=	-	ORDER 2.  1. Paramenia 2. Childbirth (see Puer-)	*2 4*8	1 8	1	3	- 5	- 3	-	-
CONSTITUTIONAL DISCORDER 1.  1. Gout	1.9	2	_	_		1	1		peral Fever)	58.7	49		_	_		21	28
2. Dropsy	13·3 28·8 ·6	14 30 1	2	2,1 - 4	3 2 -	19	9 -	2 - 1	ORDER 4.  1. Atrophy and Debility -	62:7	52	48	-	-	2	2	-
5. Mortification ORDER 2. 1. Scrofula	7.7	9	3	3 2	2	-	1	-	V. VIOLENT DEATHS, &c. ORDER 1.								
2. Tabes Mesenterica	16.2 180.0 32.1	12 181 27	10 12 22	17 4	88	53	11	1 1 1	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions	13.1	18	2	2	4	7	2	1
III. LOCAL DISEASES. ORDER 1.									2. Wounds	7.4	1 7 7 1	Ę	2		1	1	-
1. Cephalitis	16°6 35°0 29°8	20 28 20	14	1 -	1 8 2	7 3	12 10	- 4 5	5. Drowning 6. Suffocation 7. Otherwise	5.7 9.3 2.0	7	7	-	-	-	-	E
4. Insanity	2·1 3 9·9	6 1 4	1	-	1	1 1	4 -	- 1	ORDER 3. (Homicide.)								
7. Convulsions 8. Brain Disease, &c ORDER 2.	18.2	69 23	65 3	3 4	5	3	7	1	1. Murder and Manslaughter Order 4.	2.3	2	1	-	-	3	-	-
1. Pericarditis 2. Aneurism 3. Heart Disease, &c	1.9 1.9 63.8	3 2 81	- 1	9	10	2 25	32	1 -4	(SUICIDE.)  1. Wounds {Gunshot - Cut, Stab -	*4	ī	-	-	-1	1 1	-	-
ORDER 3.  1. Laryngitis	11.1	16 149	11 57	4	3 5	1 26	1 44	13	2. Poison	1.4 1.5 .8 2.1	1 1 1 1	=	-	1.1	1	1	B
5. Asthma	2 3 91 9 15 4	67 16	43 - 7	3 - 1	2 7 1 2	9 6 1	4 7	1 2	5. Otherwise ORDER 5.		1	-	-	1	-	_	
6. Lung Discase, &c ORDER 4.  1. Gastritis	18.9	11	-	-	-	-	-	-	(EXECUTION.) 1. Hanging		-	-	-	_	-	-	-
2. Enteritis	6.8 5.2 2.6	3-4-1	1 -	1 -	1 1 -	2 -	=	1	Violent Deaths (not classed)	-3	1	-		1	_	-	-
5. Ulceration of Intestines - 6. Hernia 7. Ileus	3°6 2°7	1 2 3	1	1 1	1	1 -			Sudden Deaths (Cause un- ascertained)	3.3	3	3	-	-	-	-	-
8. Intussusception	.8	1	1	_	-	-	-	-	donned 3 2 2 2 3	1	Overing	_	thou	-12			

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

#### Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes, 116

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

												du	ring	the	Wee	k en	ding
		during	during				The	DEAT	нѕ ге	gistere	d in	the W	eek i	nelude	е		
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions. †
LONDON	2,803,989	2100	1493	306	263	214	15	36	6	53	8	11	10	7	43	86	257
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	458,125 618,210 383,321 571,158 773,175	382 468 183 441 676	242 362 146 300 443	48 63 24 70 101	47 63 29 54 70	7 90 9 37 71	1 1 - 3 10	7 15 - 4 10	3 - 1	10 16 5 11 11	1 3 2 - 2	1 3 - 4 3	3 2 1 1 3	2 4 1	10 7 2 11 13	17 19 4 30 16	36 92 29 46 54
WEST DISTRICTS.  St. Mary Paddington WH	39015 36769 51910 18198 5415 19104 15539 21654 19899 21886 19773 12885 55113 87483	33 12 63 17 4 25 18 11 12 19 5 8 46 20	22 12 35 11 2 15 21 11 14 11 8 3 26 14	61812 - 5 158 64	12773 - 5 433 2164	411111111111111111111111111111111111111	TILL TEL THEFTITE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		12 - 3 - 1 - 3 - 1 - 1		111111111111111111111111111111111111111	118111111111	entity minim	1111 192 111 111	21 11 152 121 11 1	1 2 4 2 6 2 1 - 6 6
St. James's Square Golden Square W Berwick-street St. Anne Soho HH	30730 10753 13966 10607 17426	15 3 8 8 10	19 1 4 5 8	1 2 -	5	11111	1 1111	11111		1	1111	11111	11111	1	1 1111	1	7 8 2
NORTH DISTRICTS.  All Sonls Marylebone HH	29952 15090 26692 22493 34913 32540 19106 34927 29371 27508 39099 23226 44317 75442 75499 6663 5483 24265 31481 15488	16 77 14 15 21 14 20 26 16 17 23 21 52 69 63 2 4 17 85 16	19 3 19 5 11 17 85 15 20 10 20 12 23 43 43 43 44 40 8	6 - 21 55-1 542445 77 1 - 222	4 - 6 1 8 1 1 4 4 2 4 3 4 5 12 - 1 1 6 1			11123511	111111111111111111111111111111111111111	1 1 3 3 1 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1	2 1	111111111111111111111111111111111111111		11111 200 11111 1 11111	111111921111	21-3-4-1134-1-8-	5 7 
CENTRAL DISTRICTS.  St. George Bloomebury - St. Giles South WH St. Giles South WH	17892 19483 17201 11618 11071 10846 15207 12947 12912 1732 1732 1732 1732 1732 1732 1732 17	10 15 15 16 4 1 2 6 6 12 4 7 7 9 10 7 6 11 11 17 4 6 8 9 11 12 6 8 9 11 12 13 14 14 15 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	7 10 6 4 4 5 1 1 9 4 4 4 6 6 4 4 4 9 1 4 4 6 6 1 4 4 2 3 3 3	14-11-11-12-12-13-11-1-1-1-1-1-1-1-1-1-1-1	521 3 3 122 231 31123 11 1	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					THE THE PARTY OF T					2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W—Workhouse;

H—Hospital;

L—Lunatic Asylum;

w—A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 8th April 1871.

Saturday, 8th April 1871.																	
		during	during				The 1	DEATE	is reg	istere	d in	the W	eek i	nclude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti- tutions.
East Districts.  Holywell Shoreditch — — — — — — — — — — — — — — — — — — —	17313 19188 26516 25777 23260 17310	6 2 27 22 16 10	7 7 8 5 15 4	1 2 2 - 2 1	14	111251	111111		11111	111111	+	111111	111111	111111	111111	111111	6 -
Hackney-road Green, Bethnal Green WHL† - Church, Bethnal Green - Town, Bethnal Green	26298 31789 25528 21486	23 32 21 15	13 12 10	9 4 5	3 1 3	3 3 3			1111	2 -	-	1 -			2	8 -	5 -
Artillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	2 10 10 2 - 9 4	4 4 11 4 9 5 2	1 1 1	23211	2 . 1 2	1111111	1111111	1111111	111111	1111111	1		ri i i i i i	ī - 1 -	2 2 2 2 1	7 6 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 2101 <i>5</i> 9695	14 17 7	7 8 11	2 1 1	3 1 2	- 2	1	- ī	= 1	1 -	-		-	-	ī .	2 1	7
Shadwell W	12537 16874 27161	7 10 24	3 9 12	- 4 8	1	1 2 1	- 1	- 1	-	2	· <u>-</u> ·	ī	1.1.1		1	2 -	1 2 -
Mile End Old Town West Mile End Old Town East WwH-  Bow WwHLt	33747 39317	29 38 52	21 32	6 7	6 8	1 2	-	ī	-	2	=	-	1	-	1	2 3	6
Poplar WH	35667 43529	32	13 13	3	1	2	1 -	= '	1.	1 2	-	1 -	-,	-	8	5 . -	6
SOUTH DISTRICTS.  Christchurch Southwark W St. Saviour Southwark H Kent-road Borough-road WH London-road U Trinity Newington St. Peter Walworth W St. Mary Newington H	17069 19101 19652 16668 19190 22675 44463 15082	11 9 14 8 8 11 87 7	10 12 10 7 10 14 15	23253231	4 - 1 - 1 4, 3	1 00 00 1 00 00 00	1111111	1	1111111	1	111111111	1111111	Pignin	in mining	2 - 1	1 2 1	2 - 1 - 2
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W St. James Bermondsey Rotherhithe W	7663 11393 16696 16505 25154 24502	2 9 9 12 42 20	15 6 7 10 13 16	1 2 3 4	1 2 4 2	1 2 2 2	1 1 1 1	- 1	titii.	7771	111111	111111	11111	111111	2 1 - 1 1	1 - 1	11 2 -
Waterloo-road lat H	15269 18640 19839 29542 30785 20440 20067 7462	14 19 9 39 33 27 25 12	8 6 14 12 19 14 28 2	3 2 7 3 5 9 1 -	1 3 - 8 1	2 5 18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 3 1 1 1 1	rirititi			1	1		1	1 2 -	16
Clapham HL	20894 19600 13346 6481 10082	25 49 11 4 12	20 28 4 2 6	5 6 - 3	3 1 - 1 3	1 12 - -	1	1	11141	4	11111	1 -	1	11111	11111	in it	2 2 -
Dulwich Camberwell WL†L†	1723 21297 28135 20333	13 30 19	16 18 5	- 2 4 3	- 5 3 1	- 2 3 -	ī ī	1111	-	-		-		1 1 1	1111	- 1	2 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	40 2 14 8	19 1 5 19	6 - 2 2	3 - 2 4	2 1 -	- - -	2 -		1	1	- - 1	-	1	ī	- 2	10
Eitham Lee Lee Lewisham Village W	3009 11008 7372 10595	2 4 8 10	1 3 5 5	- - 1	1! 3	2711		ī -		1	2°-3	1111		1111	1	1111	2 -
Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead, West Plumstead, East	$\begin{array}{c} 9276 \\ 22919 \\ 18776 \\ \end{array}$ $\begin{array}{c} 24502 \\ \end{array}$	4 17 8 15	4 6 8 1 10	2 1 2	1 2 - 3	1 2 - -	1	11111	1	- - 1	1 1 1 1 1		11111	1.1-1-1-1			1111

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - " " Totenham-court sub-district.
Landon City - " Islington East.
Do. do. - " " Hackney sub-district.

Do. do. - " " Hackney sub-district.

Stepney - " Bow sub-district.

Stepney - " Bow sub-district.

Bow sub-district. sub-district. Stepney - ,, ,,
† Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROTAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 8th April, 1871. [Under the Superintendence of the Astronomer Royal.]

									Meteoro	logic	al C	bse	rvations.				1			
				Oron		::	:	:	:::	:	56		hose n at dry	five	and sults the well	d by rage	oer," d as	pring	Col.	d to
RAIN.	Collected	Gauge	receiving	above the ground.	Inches	0.0	00.00	0.00	888	Sum 0.01	35		ve the n tr with tr re taker ster, the	R.S., from five The mean daily	the dry The res include P.M., as	termined by The average ical observa-	d – "lou aderstoo	fregiste	f Lieut.	the wee
		Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	272	808	270	247 229 230	Sum 1692	24		I to be 159 feet above the mean dred to be coincident with those dring the observations are taken at adings of the barometer, the dry times, are converted into mean	sher, F.R. 1848. Th	edition.	to each.	ing 1863, J igher," an re to be u	use of sel	rered und mission o	inning of the 4th; 6th; and
	eters.		refoot	Mean of 24 Obs.	lbs.	0.1	0.1	0.1	0.00	:	23		be 15 d to be observed gs of t	es Glai part 1,	ourth ed in b. P.M	momel pplied the th	ars endead "he	by the	s regis	n on on the
	nemon		enbs uo	Least.	lbs.	0.0	0.0	0.0	0.0	:	67		ed to sidered The readin	y Jam	les, F xhibit	ther from	50 yes + is r	Polic	nts are hip, b	at tl
WIND.	from /	9.	Pressure on squarefoot	Great-	lbs.	1.1	1.3	1.0	1.6	:	21		nsider re con neter. of the	need b	al Tab	nimun tions b laisher	in the d that ical ob	ascerta	the s	9.80 in 5 in. b
	As deduced from Anemometers	Osler's.	Direction.	P.M.		WSW. NNW,	NNE, & E.	W. by S.	E. & NE. E. E.	Variable.	20	NOTES.	The height of the cistern of the barometer is considered to be 159 feet above the mean level of the sea. The readings of the barometer are considered to be coincident with those of the Royal Society's fluit glass standard barometer. The observations are taken at 91. AM; noon; 31. P.M.; and 91. P.M. The means of the readings of the barometer, the dry thermpaneter, and the wet therarmometer, observed at these times, are converted into mean	daily values by the application of corrections deduced by James Glaisher, F.R.S., from five years' observations ending 1845, December 31.—See Phil. Trans, part 1, 1848. The mean daily	dew point and degree of humidity are deduced from those mean daily values of the dry and wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 91, A.M.; noon; 30, P.M.; and 91, P.M.; as well	as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glasher from the thermometrical observa-	the state of the Korya Ubservatory, Greenwich, in the 60 years ending 1885, December 31, and reducing the 17th column it will be borne in mind that + is read "bigber," and - "borsey," for the the average. The results of all the meteorological, observations are to be understood as and rive to the civil day or from midnish to midnish.	The temperature of the water of the mere is ascertained by the use of self-registering thermometers, suspended from the side of the "Sorpion". Police Ship, at the depth of about	The regaings of these instruments are registered under the super- int inspector on board the ship, by permission of LieutCol. missioner of Metworlitan Police.	The reading of the barometer decreased from 29.9814, at the beginning of the week to 29.581in, by 9h. A.M. on the 3d; increased to 29.951in, by noon on the 4th; decreased to 29.951in, by 3h. P.M. on the 5th; increased to 30.051in, by 9h. P.M. on the 6th; and was 39.871in, et the one of the week.
-			General	A. M.		NW.&W.	NE. &	WSW. &	ENE. & E.	Vari	19		of the bareings of the transparent glass stand 9h. P.M.	ion of corresemb	Glaisher's of the air,	the maxin leters, the p at determin	oservatory, in it will be its of all the	rater of the	ne readings t inspector nissioner of	meter decre 3d; increase h; increase
Degree	of Hu- midity,	Satura-	being repre-	by 100.		82	68	82	82 68 74	16	18		cistern le readi y's flir .M.; an	pplicat ding 18	ers by erature	ermon ir is th	h colun he resu	of the v	residen	on the
SE CE	Between mean tem-	perature of	mean tem-	the same day on an average of 50 years.*	o	9.0+	- 1.3	+ 0.5	25.5	- 2.1	17		The height of the cistern of the bar level of the sea. The readings of the of the Royal Society's fluit glass style. As, noon; 3l. P.M.; and 9h. P.M.	es by the a ervations er	and degree thermomet daily temp	sults deduc gristering the	ding the 17t werage. The the civil	nperature esters, suspe	Treet below the surface. intendence of the resid	ding of the by Sh. P.M. of
DIFFERENCE	Point	0.00		Least.	1	0.0	0.0	1.1	1.4	8.0	16		he hei of the R the R A.M.;	y valu	point bulb mean ervatio	self-re	In read to the second	he ter	et belo	he res 58 in. 1 55 in. b
DIF	Between Dew Point Temperature	Air Temperature		Great- est.	C	13.2	18.2	14.0	13.4 15.8 20.2	15.6	15						tha tha			
	Betwe	Air	Mean	daily value,	c	5.1	9.6	5.3	1000	0.1	14		may a p			-pholo :		cloudy	the early	Hoar frost in
	Water of	mes at	stering meters	Lowest	c	45.3	45.3	43.0	42.5	43.9	13		80		ning.	evening		partially cloudy	in	
	In the		self-registering Thermometers	Highest.	c	48.0	4.14	4.14	47.4	47.5	12	HERE	the m		the mor	alled till	,	ine and	Hoar frost	1 at time
ERS.	Lowest on the	0 %	a self- register-	Minimum Thermo- meter.	C	25.0	32.7	30.7	20.0 15.8 19.3	8.52	11	ATMOSPHERE.	Pavailod		un fell in	ally prev	Ĭ	rning; f		prevaile
READINGS OF THERMOMETERS.	Highest in the sun, as	shown by a self-regis-	Thermo meter with	blackened bulb in vacuo, placed on the Grass.	c	90.06	105.7	70.5	108.0 119.8 114.0	97.1	10	SKY AND A	Slight for marrailed in the morning and a fow	night.	<ol> <li>A little rain fell in the morning.</li> </ol>	y; lightelouds generally prerailed till evening; cloud- int.	A fine day; generally cloudy.	throughout the morning; fine and afternoon; cloudless at night.	cloudless throughout.	A little light cloud prevailed at times.
TGS OF	Dew	Point.	~~	value.	· ·	88 ₹	34.1	40.3	34.0 30.3 34.8	36.1	6	7	· velonde	drops of rain fell at night.	Generally overcast.	; light	; gener	rough Ternoo	ne.; clou	Very fine. A little ligh the early morning hours,
READIN			Moan	value.	0	4 4	43.9	45.6	39.2 40.2 42.5	43.1	∞		Generally	of rain	ierally	A fine day less at night	ine day	Overeast t	Very fine.; c	ry fine.
			Range	day.	o	14.9	15.3	16.8	17.8 21.8 24.8	18.3	7		2	drops	<b></b>	Jess a	<b>A</b> .	durin	Ver	The eq
	Dec		Low-	est.	o	88.0 14.9 40.0 16.7	37.6	38.2	32.0 29.1 30.0	35.0	9		uo.		weak weak weak	in the there	rning;	rnoon	onally	
			High-	986.	C	52.9	52.9	55.0	49.8 50.9 54.8	53.3	lus	.YTI	hie tene		riable t rning; rnoon;	shown	the mo	the aft	3 00cas	
BARO-	Mean	reading (eor-	and re-	32 degr. Fahren- heit).	in.	29.708	29.928	29.859	30.020 29.979 29.890	29.861	4	ELECTRICITY	d'aca		with variable tension the morning; weak the afternoon; weak night.	ative was at other ricity.	ve about	itive in	itive wa	tive.
MOON.		Phases	of	Moon.		::	:	In	Full. Perigee	:	00	ELI	Positive with wariable tension	, carrier	Negative, with variable tension throughout the morning; weak positive in the afternoon; weak negative at night.	Weak negative was shown in the afternoon; at other times there was no electricity.	Moderate positive in the morning; weak negative about 6h. P.M.; no electricity at other times.	Weak positive in the afternoon and evening.	Weak positive was occasionally shown.	Weak positive.
			DAY.			03.60	41	20	92-8		nmns	-	01		201	4	20	9	- d	00
		1871	MONTH AND DAY.		APRIL.	SUNDAY	TUESDAY .	WEDNESDAY	THURSDAY. FRIDAY. SATURDAY.	MEANS	No. of Columns	DATE.	APRIL.		Mondar .	TUESDAY .	WEDNESDAT	THURSDAY .	FRIDAT .	SATURDAY.
-	_	1						_	_	-	-	-		-		-				

# WEEKLY RETURN

# AND DEATHS IN BIRTHS

AND IN NINETEEN OTHER LARGE TOWN OF THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 15. 1871. Vol. XXXII.]

WEEK ENDING SATURDAY, APRIL 15. [Price 1d.

General Register Office, Somerset House, 17th April 1871.

DURING the week ending Saturday the 15th instant, 5235 births and 4045 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week was at the rate of 29

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—
London 28 per 1000; Portsmouth 19, Norwich 27, Bristol 24, Wolverhampton 25, Birmingham 25, Leicester 17, Nottingham 23, Liverpool 38, Manchester 28, Salford 28, Bradford 30, Leeds 24, Sheffield 27, Hull 19, Sunderland 35, and Newcastle-upon-Tyne 38. The fatal cases of small-pox in these towns, which in the two previous weeks had been 275 and 302, further increased to 347 last week, of which 265 occurred in London, 68 in Liverpool, 11 in Newcastle-upon-Tyne, 2 in Sunderland, and one in Manchester. These numbers showed a decline of 9 in Liverpool, and an increase of 51 and 5 respectively in London and Newcastle. The annual death-rate from small-pox was equal to 7 per 1000 last week in Liverpool, and to 4 in both London and Newcastle.

In Edinburgh the annual rate of mortality from all causes last week was 29 per

1000 persons living, and 41 in Glasgow.

In Brussels 174 deaths occurred in the week ending 8th instant, and the annual death-rate was 46 per 1000; 41 fatal cases of small-pox were reported, against 37 and 32 in the two preceding weeks.

In the City of New York 537 deaths were registered in the week ending

25th ultimo, and the equivalent annual rate of mortality was 30 per 1000.

In Bombay the deaths registered during the week ending 21st ultimo were 326, and the mortality was at the annual rate of 21 per 1000. In Madras 251 deaths were registered in the week ending 3d ultimo, showing an annual death-rate equal to 31 per 1000 of the population.

In LONDON 2414 BIRTHS and 1722 DEATHS were registered last week. After making due allowance for increase of population, the births exceeded by 144, and the deaths by 138, the average numbers in the corresponding week of the

last ten years.

Zymotic diseases caused 452 deaths last week, including 265 from small-pox, 6 from measles, 40 from scarlet fever, 4 from diphtheria, 66 from whooping-cough, 31 from different forms of fever (of which 8 were certified as typhus, 14 as enteric or typhoid, and 9 as simple continued fever), and 6 from diarrhoa; thus to the seven principal diseases of this class 418 deaths were referred last week, against 330 and 360 in the two preceding weeks. The deaths from small-pox, scarlatina, whooping-cough, and enteric fever, showed an increase upon the previous week.

The fatal cases of small-pox in London, which during the ten weeks ending 8th instant had ranged between 185 and 227, averaging 206, rose last week to 265, the highest weekly number that has occurred during the present epidemic. It is probable that part of this increase belonged to the preceding week, in which registration was somewhat interrupted by the occurrence of Good Friday. The highest weekly number of deaths from small-pox in London during the various epidemics which prevailed during the 31 years 1840-70, was 102 in the last week of 1840. In eight permanent and temporary hospitals for this disease 102 deaths were

[15.]

recorded last week, of which 55 occurred in the institution at Hampstead. After distributing, so far as is practicable, these deaths in hospital among the districts from which the patients were admitted, it appears that 30 deaths from small-pox last week belonged to the West group of Districts, 76 to the North, 18 to the Central, 57 to the East, and 84 to the South. The fatal cases showed, in each of these group of Districts, an increase upon the previous week, which was largest in the North and West of London; in the North the deaths were more numerous in Marylebone, Somers Town, and Islington; in the West the deaths had increased in Westminster and Kensington. In the South Districts the disease was most fatally prevalent in Southwark and Battersea; in the latter sub-district 12 fatal cases were again returned last week in addition to one which was recorded in the Hospital at Stockwell.

To different forms of violence 43 deaths were referred last week; of these 35 were accidental, including 22 by fractures and contusions, 5 from burns and scalds, 2 from drowning, 4 from suffocation, and one from poison. Four of the deaths from fractures and contusions were caused by horses or vehicles in the streets: a carman, aged 23, run over by a van; an engineer, aged 37, who fell from a cart while intoxicated; a cab proprietor, aged 42, who fell from a cab; and

a man, unknown, aged about 30, who was run over by a cart.

In the large Public Institutions of the Metropolis 341 deaths were recorded last week, showing that of each 100 deaths 20 occurred in these Institutions, of which 8 were registered in Workhouses, and 12 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.71 in.; the highest reading was 29.91 in. on Tuesday morning, and the lowest 29.17 in. on Saturday at noon. The mean temperature of the air was 48° 3, or 3° 2 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 66° 5 on Wednesday, the lowest night temperature 30° 0 on Tuesday; the entire range of temperature in the week was, therefore, 36° 5. The highest temperature in the sun was 127° 5 on Wednesday. The mean temperature was below the average on the three first days of the week, while an excess was shown on each of the last four. On Monday the mean temperature was only 41°·1, and 4°·1 below the average, while on Wednesday it rose to 54°.7, and showed an excess of 9°.7. The difference between the mean dew-point temperature and air temperature The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 47° 0 last week. The mean degree of humidity of the air was 81, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air in the week averaged 13 miles per hour. Rain fell on Tuesday, Wednesday, and Saturday to the amount of 36 of an inch, of which 23 in. fell on Tuesday after 3 P.M.

The mean temperature of the week in the other large English towns furnishing returns ranged from 42°·2 in Hull, to 48°·8 in Portsmouth; the lowest recorded night temperature was 21°·0 in Hull, and the highest day temperature in the shade 66°·6 in Nottingham. Rain was measured last week in each of these towns; the amounts varying from '10 of an inch in Hull, to '97 in Salford.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 9°·05; the highest day temperature in the shade was 19°·17; the lowest night temperature showed 1°·11 of frost; the highest temperature in the sun was 53°·06. The mean temperature of the corresponding week in 50 years averaged 7°·28, or 1°·77 below the temperature of last week. The wind blew at the rate of 20 kilometres an hour, and the rain-fall measured '91 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 188,570 cubic metres, and at Barking 252,641 cubic metres, equivalent to about as many tons by weight.

Note.-A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

TABLE 1. LONDON .- Births and Deaths Registered LAST WEEK, and in the FIFTEENTH Week of Ten previous Years.

Total Births Males Females .	2004 1012 992	1862 1894 964 930	2180 1131 1049	1864 1972 1039 933	1865 1973 1036 937	2188 1090 1098	1867 2105 1048 1057	2066 1074 992	1869 2157 1072 1085	2098 1076 1022	Average of 10 Weeks.  2063.7  1054.2  1009.5	2414 1225 1159
Total Deaths  Males Females .	1209	1252	1610	1523	1533	1552	1372	1274	1595	1475	1439·5	1722
	603	655	793	777	800	819	750	638	817	735	738·7	836
	606	597	817	746	733	733	622	636	778	740	700·8	886

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

					_								
	Jan. 21.	Jan. 28.	Feb.	Feb. 11.	Feb. 18.	Feb. 25.	Mar. 4.	Mar. 11.	Mar. 18.	Mar. 25.	Apr.	Apr.	Apr. 15.
TOTAL Deaths	1846	1632	1683	1749	1625	1633	1591	1601	1576	1665	1564	1493	1722
Deaths under 5 years of age - Deaths 5-20	650 -156	601 142	603 139	640 166	642 142	627 163	643 174	652 162	616 150	643 151	613 139	578 157	670 174
Deaths 20—40 Deaths 40—60 Deaths 60—80	271 294 377	224 282 318	284 285 306	260 281 333	247 265 280	246 263 267	237 259 215	244 242 238	259 251 256	279 276 264	251 241 271	262 237 197	291 262 249
Deaths at 80 years & upwards	98	65	66	. 69	49	67	63	63	44	52	49	-67	76
Deaths from Small-pox ,, Measles - Scarlet Fever	188 17 68	157 12 66	196 12 49	211 9 46	218 11 48	227 15 47	213 15 53	194 14 54	185 13 33	205 10 36	192 13 33	214 15 37	265 6 40
Diphtheria Diphtheria Diphtheria	6 51 5	8 47 10	6 43	10 51 18	58 11	54 12	11 53 14	9 67 5	3 55 10	6 48 12	6 41 7	6 53 8	4 66 8
" Enteric (or Ty-) phoid) fever -	12	15	15	14	15	15	17	15	16	14	13	11	14
" SimpleContafever " Diarrhea - " Simple Cholera -	17	5 10	13	16 14	9 14	7 14 1	13 13	15 —	17 9	6 9 1	11 14 —	10 7 —	9
n Phthisis - n Prochitis - n Procumonia - n Heart Disease -	155 309 89 93	162 250 84 71	174 248 90 82	175 223 83 75	166 194 66 89	138 177 75 94	149 174 92 63	160 176 89 59	178 209 77 67	205 224 94 79	162 193 72 69	181 149 67 81	182 189 84 66
Mean Temperature of the Air	37.1	32.4	34.9	41.6	42.7	43.8	45.7	46.3	41.7	47.1	43.8	43.1	48.3.
Mean Temperature of the Water of the Thames	-	-	34.6	40.1	40.5	42.9	43.8	45.2	45.2	44.4	47.5	45.7	47.0.
Humidity of the Air	93	84	91	82	87	81	79	78	81	82	75	76	81:
Rain-fall in inches	1.32	0.54	0.19	0.72	0.02	0.06	0.11	Q·47	0.28	0.03	0.03	0:01	0.36.

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that therate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow. Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eecles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Mold Trafford, Manchester; D. Doncaster, Esq., jun, F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 15th day of April 1871, in the following large Towns.

		Total day	,	1011, 111		0 0					_
CITIES	Area	Estimated	Persons	BIRTHS registered	DEATHS registered	Tempera (Fa	TURE OF !		TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALL.
AND BOROUGHS.	in Acres.	Population in the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 15th April 1871.	during the Week ending 15th April 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Cent metr
Total of 20 Towns in the United Kingdom	213,281	7,336,961	34.4	5235	4045	66.6	21.0	46.1	7.83	0.65	1.6
LONDON	77,997	3,258,469	41.8	2414	1722	66.2	30.0	48*3	9.02	0.36	0.9
PORTSMOUTH	9,513	125,464	13.2	77	45	65.4	35.0	48*8	9.33	0.23	1.3
Norwich	7,472	81,787	10.9	63	42	64.0	27.5	44.2	6.95	0.44	1.1
BRISTOL	4,688	173,364	37.0	123	81		-				1
WOLVERHAMPTON -	3,387	74,438	22.0	39	35	62.7	29.1	46.7	8°16	0.77	149
	7,831	378,574	48.3	229	182	63.8	29.0	45.8	7.66	0.57	1.4
BIRMINGHAM	3,200	101,367	31.7	76	34	62.0	26.5	46.7	8'16	0.23	1.8
LEICESTER	1.996	90,480	45.3	59	40	66.6	27.1	47.3	8.20	0.59	1'8
NOTTINGHAM	5.108	526,225	103.0	396	387	62.0	33.4	47.8	8.78	0.70	1.4
LIVERPOOL MANCHESTER	4,486	379,140	84.2	248	206	62.0	31.0	47.2	8.44	0.82	2.3
MANCHESTER -					66	0010	30.8	46.3	7.94	0.97	2.
SALFORD	5,172	123,851	23:9	95	1	60.8	30.8	46'1	7.83	0.44	1.
BRADFORD	6,590	148,030	22.5	81	85	60.8	28.0	45.1	7.28	0.49	1.
LEEDS	21,572	266,108	12.3	120	124	60.0	28.0	44.5	6.95	0.66	11.
SHEFFIELD	22,830	255,247	11.2	202	133	63.0	21.0	42.2	5.67	0.10	0.
Hurr	3,562	135,195	38.0	83	40	03.0	21 0	34 4		1	
SUNDERLAND	3,306	103,037	31.2	64 .	: 69		4-	-	-	-	1
NEWCASTLE-ON-TYNE		136,293	25.5	118	98	56.0	31.0	44.6	7.00	0.28	1.
EDINBURGH	4,427	179,944	40.6	141	99	58.7	30.0	45.0	7.22	1.80	4.
GLASGOW	5,068	477,627	94.3	415	373	1 -		-		- 57	1 :-
DUBLIN	9,745	322,321	33'1	1921	175	-	-		77.	177.	1 :=
								1			

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d instant, will probe be available before the middle of the year, and will then be substituted for these estimates.

† The usual return from Dublin not having come to hand, averages of the births and deaths in that city in the six previously have been used in order to make totals for the 20 towns.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Wending Saturday the 15th day of April 1871.

	ANNUAL	, .			Th	e DEAT	ns regi	stered	in the	Week i	nclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Searlet Fever,	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence. :	Inquest Cases.	
Total of 17 Towns -	28	3398	794	644	347	58	98	14	98	84	22	92	167	1
LONDON -	28	1722	366	325	265	6	40	*4	66	31	6	43	86	3
PORTSMOUTH -	19	45	10	11	-	-	2	-	1	2	-	1	. 4	
NORWICH -	27	42	11	15	-	-	-	1	2	-	1	1	2	
BRISTOL	24	81	23	24		· :-	2 .	im	1	1	8	2	8	L
	-								-	_	1	4	6	1
WOLVERHAMPTON .	25	35	8	7		12	2	4	5	5	2	8	13	
BIRMINGHAM	25	182	53	. 23	-	12	2	-9	-	1		i	1	1
LEICESTER	17	34	11	6	-	_	1			1	_	1	2	
NOTTINGHAM	23	40	10	10	7				1	1				
LIVERPOOL	38	387	92	64	68	15	14	2	12	18	2	6	11	1
MANCHESTER	28	206	37	89	- 1	15	3		-	12	-1	8.	14	
SALFORD	28	66	17	7	**	3	-	-	-	-	2	2	3	1
BRADFORD	30	85	20	17	-	-	10	-	1	2		5	4	1
	ŭ	124	85	20	-	9	2	_	2	4	3	- 4	3	
LEEDS	24	133	38	32		-5	12	1	4	3	1	1	3	
SHEFFIELD	27	133	11	10		-	1	-	-	1	_	2	2	1
HULL	19 35	69	18	16	2		7	1	1	2	-	6	7	1
SUNDERLAND	38	98	84	18	111	-	2	1	3	. 1		1	3	
NEWCASTLE-ON-TYNE -	98	98	04	10	1									
DUBLIN	- 1	Mayor a	-	-	-	-	-	-	4.	-	in-	lam'r		1

TABLE 5 .- DEATHS in LONDON Registered in the FIFTEENTH Week of the Year 1871.

TABLE 5.—	-DEATI	is in	T101	NDO	N l	tegi	ster	'ed	n the FIFTEENTH Week	of the	e <b>x</b> ea	rı	871	•			
	e k 1-70.	S	In t	he W	eek April	endi 15, t	ng 871.			e k 1-70.	S	In t	he V	Veek Apri	endi l 15,	ng 1871.	
	Averages of the Fifteenth Week the 10 years 1861-70		Deat	hs o	f Per	sons	of		1 - 2 - 2 - 2	Averages of the Fifteenth Week the 10 years 1861-70.		Dea	ths o	of Per	rsons	of	
CAUSES OF DEATH.	erages teenth	ALL	Un		40.	. 60.	. 80.	and	CAUSES OF DEATH.	erages teentl	ALL	Une		. 40.	. 60.	. 80.	and
	Fif in the	Mean	2	).	under	under (	under	Years a	4.	Av Fif in the	AGES. Mean	20	). 	under 40	under 60	under 80	are a
Mean Townsonture	48.4	Tem.	0-5.	5-20.	20 and	40 and	60 and	80 Years upwards	35 M	48.4	Tem.	0-5.	5-20.	and	40 and	60 and	80 Years upwards.
Mean Temperature -		-				262	-		Mean Temperature -			0	70	20	4		00
ALL GAUSES SPECIFIED CAUSES	1439·5 1425·1	1722 1714	670 664		291	262	249	76 76	9. Stricture of Intestines - 10. Fistula 11. Stomach Disease, &c	6:4 6:4	1 1 8	1	-		. 1	1 2	
I. ZYMOTIC DISEASES.									12. Pancreas Disease, &c 13. Hepatitis 14. Jaundice	3.6	5 7	-2	1	2	3 3 12	1	1111
ORDER 1.  1. Small-pox	20.4 35.5	265 6	99	68	79	17	2	1 1	15. Liver Disease, &c 16. Spleen Disease, &c	16.3	21		-	-	-	7	-
8. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy	10.6 10.6	40 4 1	24 3 -	15	1		-		ORDER 5.  1. Nephritis	*9	2 -	-	- :	1	1	+ 10	-
6. Croup 7. Whooping-cough 8. Typhus	17:0 71:4	9 66 8	8 64	1 2 2 5	- 3	2 2		۱	8. Bright's Disease (Nephria) 4. Diabetes	8°6 2·0 ·5	8 2 -	11	1	3 1 1	1	2 -	
- Enteric or Typhoid Fever - - Simple continued Fever - 9. Erysipelas	7:1	8 14 9 9	4 2 3	4	3 2	2 - 4	1	- 1	6. Cystitis 7. Kidney Disease, &c	7.8	13		-	2	5	5	ī
10. Puerperal Fever (Metria) 11. Carbunele – – – 12. Influenza – – –	2.4	3 1 1	-	-	3		1	1	ORDER 6. 1. Ovarian Dropsy 2. Uterus Disease, &c	1·1 3·4	1 5	-	-1	ī	-	1 3	
13. Dysentery	15.1	6	5	1.	-	E	1	1	ORDER 7.  1. Synovitis (Arthritis) -		-			-	-		
16. Ague	1.3 7.8	1 8	=	1 - 2	- 3	- 1	2	Ē	2. Joint Disease, &c ORDER 8.	5.7	13	1	8	2	ī	1	-
19. Other Zymotic Diseases -	-1				-		=		1. Phlegmon	2·9 1·2 2·9	4 - 1	2 - 1	1 - 1	10	2 -		
1. Syphilis 2. Stricture of Urethra - 3. Hydrophobia	6.2 -8	10	8 -	Ξ	1 -	1	=	=	3. Skin Disease, &c  IV. DEVELOPMENTAL								
4. Glanders	1.1	-	_		-		-		DISEASES. ORDER 1.	16.7	36	36					_
2. Want of Breast-milk -	7·4 1·9 1·6	6 2 3	6		1 2	1	111		1. Premature Birth 2. Cyanosis 3. Spina Bifida 4. Other Malformations -	1·7 1·2 2·3	2 2 8	2 2 3	+ + +	111	=	E	-
4. Alco-{ a Del. Tremens - holism { b Intemperance - Order 4.	1'1	-	Ξ	=	-	Ė	=		4. Other Malformations - 5. Teething ORDER 2.	19.2	16	16	-		-		
1. Thrush	2:8	4 -	4	Ξ	=	Ξ	=		1. Paramenia 2. Childbirth (see Puerperal)	5·2	- 8		-	8	-	-	-
II. CONSTITUTIONAL DIS.  ORDER 1.  1. Gout	7.0					١,	Į,		Fever) (	53.8	66					23	43
2. Dropsy	1.9 15.9 25.9	16 24	4 - 1	2	3 2	14 15	1 2 6	ī -	1. Old Age ORDER 4.	28.0	-	59	1	1	1	5	10
4Cancrum Oris (Noma) - 5. Mortification ORDER 2.	4.2	6	-	1	=	-	4	ī	1. Atrophy and Debility - V. VIOLENT DEATHS, &c.	. 33 0	67		-	1	-	-	
1. Scrofula	8.8 18.0 180.9	10 26 182	10 23 11	3 10	104	50	7		ORDER 1. (ACCIDENT OF NEGLIGENCE.)			1					
4. Hydrocephalus III. LOCAL DISEASES.	37.8	22	20	2	=		=		1. Fractures and Contusions 2. Wounds	15:5 '9 5.8	22 5	3 - 1	3 -	8 - 2	5 -	3	- 1
ORDER 1.	14.9	18	12	2 2	3	1		-	4. Poison	5.8 6.1	5 1 2 4	2 1	1	2 1 - 1	1	-	1 1 1
2. Apoplexy	30·9 31·2 2·4	50 42 2	12	-	2 -	10 9 2	26 24 -	2 7 -	6. Suffocation 7. Otherwise	1.6	1	1	-	=	-	-	-
5. Chorea	6°6 57°5	5 64	63	1 1 5	2	=	2 -	Ē	ORDER 3. (HOMICIDE.)  1. Murder and Manslaughter	2.7		1					
8. Brain Disease, &c ORDER 2. 1. Pericarditis	50.1	16	4		1	1	3		ORDER 4.		-						
2. Aneurism	2.7 2.9 62.3	3 66	2	7	11	25	18	3	(SUICIDE.)  1. Wounds {Gunshot - Cut, Stab -	1.4 1.2	- 3	1 1	1.1	-1	- 2	-	-
ORDER 3. 1. Laryngitis	11.4 164.2	10 189	6 62	1 4	1 6	2 30	75	12	2. Poison 3. Drowning 4. Hanging	1.2 6 2.8	1 3	1111		1 2	- 1	-	
8. Pleurisy	164°2 4°1 86°3 12°0	7 84	1 53	1 5 -	9	8 9	8	٥	5. Otherwise ORDER 5.	-3	-				-	-	-
6. Lung Disease, &c	14.5	11 16	5	2	2 2	7 4	2 2	1	(EXECUTION.) 1. Hanging		-	-	,	-	-	-	-
1 Gastritis	1°3 5°1 5°2	2 4 5 2 3	3	1	1	1 -	1 2	11111	Violent Deaths (not classed)	•3	1	-	_	-	1	_	-
4. Aseites 5. Ulceration of Intestines 6. Hernia 7. Ileus	2°1 1°9 3°7	3 1	-	ĩ	-	1 - 1	1 1 1 1	1	Sudden Deaths (Cause un- ascertained) Causes not specified or ill-	2.8	-	-	-	-	-	-	-
7. Heus 8. Intussusception	5.8	1 7 2	3 -	-	1	1	1	-	Causes not specified or ill-	11.6	8	6	-	-	-	2	T
	_			_	-	-	_						_		_		

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

124 Population, Total Births and Deaths, and Deaths from some Zymotic and other Cause

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

	1		1			_			_		_		ring			L CH	ang .
		during	during				The l	DEATI	is reg	istere	d in t	he We	ek in	lude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total Births du the Week.	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Instf- tutions.†
LONDON	2,803,989	2414	1722	366	325	265	6	40	4	66	8	14	9	6	43	86	341
WEST DISTRICTS	458,125 618,210 383,321 571,158 773,175	850 580 244 496 754	279 440 168 315 520	64 85 36 61 120	65 83 34 46 97	22 116 7 40 80 §	1 3 2	5 12 4 5 14	3 1 -	11 22 6 18 9	- 5 - 1 2	3 5 1 2 3	2 1 3 3	1 2 1 2	6 9 5 10 18	10 80 11 18 17	53 129 23 53 83
WEST DISTRICTS.  St. Mary Paddington WH	39015 36769 51910 18198 5415 19104 15539 21654 19899 21886 19773 12885 55113 37483 30780 10762 10607 17426	51 19 45 17 11 26 13 21 17 5 4 32 25 15 4 8 6 14	29 15 31 22 6 16 5 11 25 15 7 13 20 16 4 8 5	9849141 9819 91896 1988	63119-122145242	4-4-22145	un fun di dunii"	2		1 1 1 1 2 + - 2 1 1 3 2		7 11 11 11 11 11 11 11 11 11 11 11 11 11	111111111111111111111111111111111111111	THE PROPERTY OF THE PERSON OF	1012441 111 11411 1111	12 - 2 - 1 - 1 - 2	8 2 - 3 - 1 17 10 - 8 - 3
All Souls Marylebone HH - Cavendish Square - Hectory Marylebone W H - St. Mary Marylebone W H - St. Mary Marylebone - St. John Marylebone - Hampstead WHH - Hampstead WHH - Hampstead WHH - Gray's Inn Lane H - Gray's Inn Lane H - Gray's Inn Lane H - Hampstead WHHH - Hallington West* WHHH - Hallington West* WHHH - Hallington West* WhHH - Hallington Hackney WwHL South Hackney WhHL - Hackney WwHL South Hackney L - Gentral Districts,	29932 15090 26692 22493 34913 32540 19106 39099 23296 44317 75442 70890 6608 5483 24265 31481 15458	24 6 19 27 26 22 22 36 22 22 17 16 43 80 114 4 6 25 82 17	22 4 20 13 11 11 11 69 18 17 23 24 14 20 50 51 4 3 17 40 9	8 3 17 1 5 2 2 6 2 4 6 1 5 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 16 8 1 2 4 1 5 8 3 2 7 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	57 1 7 3 8 5 1 3 20 2		11 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	1 2 1 1 2 4 1 2 4 2 1 1 2 1 1	31	2	arrest francis control	Millie i filitie i filme	THE RESIDENCE OF THE PARTY.	1 4 61 34 1122	3 7 5 5 87 3 3 14 6 
St. George Bloomsbury St. Giles South WH St. Giles North Long Acre Charing Cross WH St. Mary-le-Strand St. Clement Danes H St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hill St. James Clerkenwell Pentonville Creknewell Pentonville Coswell-street Old-street City-road WHHL Whitecross-street Finsbury St. Botolph East London HH Cripplegate St. Sepilehre St. Bride W Castle Baynard Christchurch Queenhithe Allhallows Barking Broad Street	17392 19483 17201 11618 11071 10846 15207 19903 12947 12012 19162 17200 18799 16290 14778 12981 12981 17782 19900 19697 11750 19697 11750 16390 19697 11750 16390 19697 11750 16390 19697 11750 16390 1750 1750 1750 1750 1750 1750 1750 175	9 19 14 9 3 6 5 12 9 6 21 15 11 18 10 23 11 7 13 4 4 9 1	11 86 46 88 7 85 12 10 38 47 86 96 125 1 - 3 3 5	1133 121 - 1132 221111 - 322 33131 1	342211: 1212212111 2:221112	111111111111111111111111111111111111111		111111111111111111111111111111111111111	1	111111111111111111111111111111111111111		1	1		1	811	1 3 6 1 2 1 1 1 7 1 1 7 1 1 1 1 1 1 1 1 1 1 1

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 125

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLENCE, &c., registered in each Sub-district aturday, 15th April 1871.

aturday, 15th April 1871.														1			
0.000		during	during	-		7	The D	EATHS	regis	tered	in the	Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
East Districts.																	
Holywell Shoreditch  t. Leonard Shoreditch  tht  tht  tht  tht  tht  tht  tht	17313 19188 26516 25777 28260 17310	6 10 26 26 23 21	9 11 10 12 13 8	232349	9 - 4 2 4 9	94292	1	-	111111	111211	1	11111	111111	11111	1	1	5 - 6 -
Hackney-road Green Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 - 21486	22 28 20 20	9 27 5 7	2 5 - 1	5 -	3 1 1	1111	1111	1111	1 1 -	1111		1 -	1111	1111		6
Artillery Whitechapel	8557 15700 15392 12122 8062 11166 9971	11 6 10 16 8 12 1	5 1 12 10 12 4 2	3 - 1 -	1 2 -	2 - 2 - 1 -	1111111	111111	1111111	1 1 2 1 1	111111	1111111	1111111	111111	1 2 - 1 1	1 3 1 1 - 2	7
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	13 21 4	11 15 7	3 -	1 - 1	2 - 1	1 -	- 2	-	1 2 -		-			1 1 1	1 2 -	- 5
Shadwell W	12537 16874 27161	9 6 17	5 7 18	1 1 3	1 1 1	- 1	-	- 1	=	1 1	-	=	-	-	î 1	- - 4	
Mile End Old Town West Mile End Old Town East WwH -	33747 39317	35 36	16 27	5 7	2 5	1 3	- 1	1 -	=	1	-	1	1	-1	-	-	3
Bow WwHLt	35667 43529	52 27	32 20	7 5	5 4	3 2	-	-		3 -	-	-	ī	-	2 -	2 -	8
SOUTH DISTRICTS.  Christchurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	9 13 10 12 15 21 88 15	10 3 12 9 15 16 40 8	2 - 3 - 3 6 7 -	6 - 1 2 1 2 10 1	1 4 1 6 3 1		3 -	11111111	1 2 1		1 1 1	2	11111111	1	1111111	4 - 3 1 - 13 3
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W	7663 11398 16696 16505 25154 24502	1 12 10 19 87 19	12 8 10 16 21 22	3 3 5 5 5 5	2 3 3 4 4 5 5	- 1 - 2 2		1 1 -	311111		1			1 - 1	2 1 - 1 1 1	2 1 - 1 1 2	10 3 - 4
Waterloo-road 1st H Waterloo-road 2md H	15269 18640 19839 29542 30785 20440 20067 7462	12 13 16 31 40 24 28 9	8 6 6 23 26 16 32 5	2 3 3 7 6 5 3 1	1 2 - 3 3 4 5	3 - 1 2 2 1 18	1111111	1 2 2	111111	1	111111111	11111111	111111	1111111	1	1 - 2 - 1	7 - 18 -
Clapham HL Battersea W	20894 19600 13346 6481 10082	17 59 17 4 4	13 34 7 5 2	3 12 1 1	3 3 - 2 1	5 12 2 -		- 1 1	1111	2 -		11111	11:11		=======================================		1 1
Dulwich Camberwell WL+L† Peckham W St. George Camberwell	1723 21297 28135 20333	4 25 30 28	1 9 16 20	2 5 4	1 2 3 3	3 2	1111	-			-			-	- 1 -	- 1 1 -	1 -
St. Paul Deptford	37834 8139 21696 18306	40 3 19 9	21 3 6 12	5 - 2 -	3 - 2 3	4 -		1 -		1111			1111		1 -	ī - -	- 8
Eitham - Lee Lee Lewisham Village W Sydenham	3009 11003 7372 10595	3 7 8 21	1 4 5 7	2 2 3	2 - 2	1111							1111		9 1 1 1		1111
Charlton H Woolwich Dockyard	9276 22919 18776 11332 18170	8 9 10 11 14	6 5 3 9 7	3 - 1 2	1 1 2 1	ī 1 1 -		1		1	1111		1		2 -	- 1	3 - 1

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.
The Strand - Tottenham-court sub-district.
London City - Islington East.
Do. do. - Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.

London City , Mile End Old Town Eastern sub-dist, and Bow sub-district.

Stepney - , Bow sub-district.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROXAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 15th April, 1871.

				_					2116	teor	otogi	cui	OUE	SE7 (	ations.						Y
۱					Oxon		:::	:	::	:	1:	26		mean	dry dry nean five laily	and sults	well hy rage	r 31.	d as	the cf	the to u on
	RAIN.	8	Gauge	2		Inches	0.00	10.0	00.00	0.12	Sum 0.36	25		ove the nate of	oter, the ed into n.S., from	The ary	P.M., as stermined The ave	rical obse December nd — "lou	maerstoo lf-registe	the dept	the weed. by 9h.
			Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	224 248	457	320	466	Sum 2112	24		feet abc	The observations are taken at 9h. A.M.; readings of the barometer, the dry these times, are converted into mean of by James Glasiker, F.R.S., from five dry James Glasiker, F.R.S., from five it. Trans., part 1, 1848. The mean daily	edition.	ters, as de to each.	ermometring 1863, vigher," a	use of se	Ship, at	nning of after 9h to 29.69 in to 29.17 in
1		ters.		arefoot.	Mean of 21Obs	lbs.	000	6.0	0.5	1.4		23		be 159	vations of the nes, are es Glai part 1,	ourth	sh. P.M rmome applied	the th	ons ar	Police S	ne begi ling til rased eased
		nemome		Pressure on square foot.	Least.	lbs.	000	0.0	0.0	0.0	:	55		red to	e obser sadings ese tin by Jam	e mear bles, F	noon; in the being	r from 50 yea at + is r	oservat	ion" Estrume	lice.  i. at the is reached decrease it de
١	WIND	from A	5.	Pressur	Great-	lbs.	1.6	4.2	1.7	30.0	:	21		onside re cor	r. The real the reced Phil. 2	oal Temps	.M.; 1 ninimi	laishe in the ind th	ight.	Scorp rese in	an Po an Po 39.87 in 7 at the ne 11th
		As deduced from Anemometers	Oster's.	Direction.	P.M.	100	ESE. & E. E. SE. & S.	W&WSW	W. & SW. ENE. & E.	WSW&W 30.0	Variable.	30	NOTES	meter is c	d baromete means of r, observed ctions dedi	Educed from Tygrometri	ad at 9h. A	ed by Mr. Greenwich,	mereorologish to midni Thames is	dings of the	Metropolit sed from stationary A.M. on the he end of t
				General Direction.	А.М.		ENE. ENE. E. by N.	SSW. & SW.	WSW&W SW. &	SE. & SW.	Vari	19		The height of the cistern of the barometer is considered to be 159 feet above the vel of the sea. The readings of the barometer are considered to be coincident with	of the Royal Society's fitti glass standard harometer. The observations are taken at 8h. $\lambda$ . A. i., noon; $3h$ . P. A. i. and $9h$ . Pa. The means of the readings of the barometer, the dry thermometer, and the wet thermometer, observed at these times, are converted into mean duity values by the application of corrections deduced by J amos Galsher, F.R.S., from free duity values by the application of corrections deduced by J amos Galsher, F.R.S., from free waits observations enting 18s, December 31.—See $Phi_{ii}$ , $Trans.$ , part 1, 18ts. The mean daily values	Glaisher's J	to mean and damperature or are not at 10 Mark; noon, 3h P.M.; and 9h P.M.; as well see the relations of the day thermometer, read at 9h A.M.; noon, 3h P.M.; and 9h P.M.; as well see the results deduced from the maximum and minimum thermometers, acceptance by the self-registering thermometers, the proper corrections being applied to each. The average	temperature of the sir is that determined by Mr. Glaisher from the thermometrical observa- tions taken at the Eoyal Observatory, Greenwich, in the 50 years enting 1883. December 31. *In reading the 17th column it will be borne in mind that+ is read "higher," and ""foucer,"	than the average, 'The results of all the meteorological capplying to the civil day, or from midnight to midnight. The remoerature of the water of the Thames is ascen	thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of about 2 feet below the surface. The readings of these that the surface of the contract that the surface of the surfa	Henderson, R.E., C.B., Commissioner of Metropolitan Police.  The reading of the bayoneter decreased from 28°71, as the beginning of the week to 29°80 in, by noon on the 9th; remained stationary at this reading till after 9h. P.M. on the same day; increased to 29°91 in, by 9h. A.M. on the 11th; decreased to 29°91 in, by 9h. A.M. on the 11th; decreased to 29°91 in, by 9h. A.M. on the 11th; decreased to 29°99 in, by the end of the week.
ı	Degree	midity,	Satura.	being repre-	sented by 100.		82 82 88	64	91	88	81	18		cistern he readir	's flint glad of the wet the wet the sphlication of	e of hun ters by	dry ther ced from	vir is tha coyal Obs th colum	day, or dof the w	ended fr	B., Comress the baron the baron the 9th to 29.9 ed to 29 week to 29 week to 29 week to 28
[Under the Superintendence of the Astronomer Royal.]	E .	Between mean tem-	perature of the day and	mean tem-	the same day on an average of 50 years.*	0	1.4	4 9.7	++ 8.9	+ 5.5	+ 3.2	17		The height of the level of the sea. T	ral Society F.M.; ar ter, and t es by the ervations	and degre	ms of the sults dedu	ire of the in at the Hing the 17	verage. 1	ters, susp	n, R.E., C. ding of th y noon of increase i, increase h; increase and increase
"onom	DIFFERENCE	Point	ure		Least.	. 0	0.0	1.7	1.3	0.0	6.0	16		he hei	he Roy n; 3h rmome y valu rs' obs	point bulb	ervatio	peratus take	n the s lying 1 he ten	rmome ut 2 fe	nderso he res 30 in. k te day the 12t
re Astr	DIFF	Between Dew Point	and Air Temperature		Great-	0	17.0	13.3	12.4	12.9	14.5	15		T		dew			tha app	the	
ce of th		Betwee	Air T	Moan		0,	1 - 6	6.5	6.0	3.5	5.8	14			lly fine.		overcast. P.M. till	M. The			showers
ntenden	•	ater of	mes at	stering neters,	Lowest,	0	43.0 43.5	43.8	46.8	48.0	45.1	13			Generally ght.	s. Fine.	rom 3h.	ally clou			Large amounts of frequent showers
Super		In the Water of	the Thames at Greenwich, by	self-registering Thermometers,	Highest, Lowest.	0	47.4 47.6 48.1	48.4	49.6	51.0	48.9	12	HERE		evalent.	cloudles:	ing. Ge	ıgain abe	léss.	able.	it, and i
nder th	rers.	Lowest on the	Grass, as	a self- register-	fininum Thermo- meter.	. 0	24.2	46.5	40.3	41.7	33.8	12	AND ATMOSPHERE.		d were prevalent. Bright aurora at night.	ht; then	rly morn st contin	tht, and s	hen cloud	very var	and 5h till nigh P.M.
2]	THERMOMETERS.	Highest in Lowest		Thermo- meter with	buib in vacuo, Placed on the Grass.		105.4 112.7 98.9	127.5	114.0	89.2	108.5	10	SKY AND A		Varinb'e amounts of cloud were prevalent. Thin rain fell about 31, P. M. Bright amors son	clouds prevailed till night; then cloudless. Finc.	Nearly cloudless in the early morning. Generally for 9h A.M. Rain fell almost continuously from 8h. idnight.	A little rain fell after midnight, and again about 9h. A.M. The mount of cloud varied during the day; generally cloudless at ight. A fine day.	Generally cloudy till night; then cloudless.	Amount of cloud very variable.	fell heavily between 2h. and 5h. A.W. Large amounts of sere generally prevalent till night, and frequent showers fell. Cloudless after 9h. P.M.
	ADINGS OF	Dew	- Outre	Mean	daily value.	. 0		48.2	47.8	47.0	42.5	6	00		amount Il about	ids prev	oudless 4. Rai	of cloud v	cloudy	. Amo	heavily general Cloudi
	READIN				daily value.	C		54.7	53.8	50.5	48.3	00			Variab'e nin rain fe	Light clou	Nearly cloud after 9h. A.M. midnight.		nerally	A fine day.	Rain fell oud were rain fell.
		Dry.		Range	day.	c	24.8	17.5	17.8	13.8	19.3	-			Va Thin	ri	after midn	13	g	¥	Rain feloud wo
	,	Q		Lowe	est.	0	32.3	49.0	47.1	9.95	40.1	9			ing the	during	4	e were	ension,	generally	sht:
				High		0	53.1 53.4 54.8	66.5	64.9	60.4	59.4	5	CITY.		ive dur	shown ght.	tension	negativ	iable t	was ge	ve at ni
ı	BARO-	Mean	reading (cor-	and re-	32 degr. Fahren heit).	in.	29.796 29.833 29.844	29.742	29.870	29.210	29.706	1 4	ELECTRICITY		eak posit nd evenin	itive was	with weak	itive and at night.	with van		eak positi
	Moon.		Phases	Jo	Moon.		29.796 5. 29.833 5. Greatest 29.844 5.	Last Cuarter	::	:	:	00	EI		A little weak positive during the afternoon and evening.	Weak positive was shown during the day; strong at night.	Positive, with weak tension	Weak positive and negative were manifested at night.	Positive, with variable tension.	Weak positive	A little weak positive at night.
H				DAY.			110	12	13	15	1:	nns.	-	1	6	10 th	Ħ	12 m	13 W	14 sh	12
		100	18/1.	MONTH AND DAY.		APRIL.	Monday . Tuesday .	WEDNESDAY	THURSDAY.	SATURDAY.	MEANS	No. of Columns	DATE.	APRIL.	SUNDAY .	Monday .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAY .	SATURDAY
		1		M			IZZ	M	T	S		Z			200	M	To	W	TH	F.R	W A

### WEEKLY RETURN

OF

# BIRTHS AND DEATHS IN LONDON

# AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Anthority of the Registrac General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 16, 1871. Vol. XXXII.] WEEK ENDING SATURDAY, APRIL 22. [Price 1d.

General Register Office, Somerset House, 24th April 1871.

During the week ending Saturday the 22d instant, 4635 births and 3694 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week was at the rate of 26

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 25 per 1000; Portsmouth 18, Norwich 22, Bristol 18, Wolverhampton 18, Birmingham 20, Leicester 15, Nottingham 23, Liverpool 35, Manchester 25, Salford 29, Bradford 27, Leeds 27, Sheffield 24, Hull 18, Sunderland 20, and Newcastle-upon-Tyne 32. The fatal cases of small-pox in these towns, which in the three previous weeks had been 275, 302, and 347, further rose to 367 last week; of these, 276 occurred in London, 74 in Liverpool, 8 in Newcastle-upon-Tyne, 4 in Salford, 2 each in Sunderland and Portsmouth, and one in Leeds. The numbers in London and Liverpool showed an increase of 11 and 6 respectively upon the previous week. The annual death-rate from small-pox last week was equal to 7 per 1000 in Liverpool, 4 in London, and 3 in Newcastle.

In Edinburgh the annual rate of mortality from all causes last week was 28 per

1000 persons living, in Glasgow 38 per 1000, and in Dublin 30.

In Brussels 173 deaths occurred in the week ending 15th instant, and the annual death-rate was 45 per 1000; these deaths included 45 from small-pox, against 32 and 41 in the two previous weeks.

In the City of New York 566 deaths were registered in the week ending 1st instant, and the equivalent annual rate of mortality was 31 per 1000; 34 deaths

were referred to small-pox,

In Bombay the deaths registered during the week ending 28th ultimo were 304, including 45 from small-pox, and the mortality was at the annual rate of 19 per 1000. In Madras 242 deaths were registered in the week ending 10th ultimo, including 9 from small-pox, showing an annual death-rate equal to 29 per 1000 of the population.

In London 2079 BIRTHS and 1578 DEATHS were registered last week. After making due allowance for increase of population, the births were 269 below, while the deaths exceeded by 38, the averaged numbers in the corresponding week

of the last ten years.

Zymotic diseases caused 453 deaths last week, including 276 from small-pox, 13 from measles, 27 from scarlet fever, 4 from diphtheria, 44 from whooping-cough, 33 from different forms of fever (of which 11 were certified as typhus, 15 as enteric or typhoid, and 7 as simple continued fever), and 15 from diarrhoa; thus to the seven principal diseases of this class 412 deaths were referred last week, against 360 and 418 in the two preceding weeks. The deaths from small-pox and fever showed a further increase upon recent weeks, while those from scarlet fever and whooping-cough had considerably declined.

The fatal cases of small-pox in London, which in the three previous weeks had been 192, 214, and 265, further rose last week to 276, the highest weekly number that has occurred during the present epidemic. Allowing for the interruption in registration caused by Good Friday and the following Easter Holidays, it is evident that the deaths from small-pox have shown a steady increase in the four

[16.]

past weeks. The 276 returned last week were considerably more than double the highest weekly number registered in London during the several epidemics which prevailed during the 31 years 1840–70. In nine permanent and temporary special hospitals for this disease 119 deaths were recorded last week, of which 44, 29, and 25 occurred respectively in the institutions at Hampstead, Stockwell, and Homerton. After distributing, so far as is practicable, these deaths in hospital among the districts from which the patients were admitted, it appears that 31 deaths from small pox last week belonged to the West group of Districts, 64 to the North, 25 to the Central, 57 to the East, and 99 to the South. The fatal cases showed a decline in the North Districts, while they were considerably more numerous in the Central and South Districts. The fatality from the disease had increased last week in Holborn, Battersea, and Southwark. It is worthy of remark, that five of the fatal cases recorded in the Small-pox Hospital at Islington were of inmates admitted from the Suburban Districts, Edgware, Stanmore, Willesden, and Hendon.

To different forms of violence 53 deaths were referred last week; of these 42 were accidental, including 20 by fractures and contusions, 7 from burns and scalds, 7 from drowning, 4 from suffocation, 2 from wounds, and one from poison. Five of the deaths from fractures and contusions were caused by horses or vehicles in the streets: the son of a brickmaker, aged 6 years, run over by a coal waggon; the son of a bricklayer, aged 2 years, run over by a van; the son of a police sergeant, aged 10 years, run over by a van; the son of a carman, aged 9 years, run over by a timber carriage; and a cabman, aged 54 years, thrown from his cab.

In the large Public Institutions of the Metropolis 334 deaths were recorded last week, showing that of each 100 deaths in the week 21 occurred in these Institutions, of which 8 were registered in Workhouses, and 13 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29 33 in.; the highest reading was 29 64 in. early on Saturday morning, and the lowest 29.01 in. on Wednesday afternoon. The mean temperature of the air was 50°·0, or 3°·6 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 62° · 8 on Monday; the lowest night temperature 41° · 3 on Thursday; the entire range of temperature in the week was, therefore, 21° 5. The highest temperature in the sun was 98°.7 on Monday. The mean temperature showed a considerable excess on each day of the week, except on Thursday, when it was only 45°·8, and 0°·9 below the average; the largest excess was 5°·7 on Monday, when the mean temperature was 51°·4. The difference between the mean dewpoint temperature and air temperature averaged 3°·1. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 50°8 last week. The mean degree of humidity of the air was 89, complete saturation being represented by 100. The general direction of the wind was S.W., and the horizontal movement of the air in the week averaged 15 miles per hour. Rain fell on each day of the week; the total amount measured was 1.75 in., of which 1.47 in. fell on Sunday, Monday, and Tuesday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 41°0 in Newcastle to 50°3 in Portsmouth; the lowest recorded night temperature was 36°0 in Hull; and the highest day temperature in the shade 65°2 in Leicester. Rain was measured last week in each of these towns, the amounts varying from 76 of an inch in Wolverhampton, to 2.26 in

Birmingham.

In Centigrade degrees the mean temperature of the air last week at Greenwich was  $10^{\circ}\cdot 0$ ; the highest day temperature in the shade was  $17^{\circ}\cdot 1$ , the lowest night temperature  $5^{\circ}\cdot 2$ , the highest temperature in the sun was  $37^{\circ}\cdot 1$ . The mean temperature of the corresponding week in 50 years averaged  $8^{\circ}\cdot 0$ , or  $2^{\circ}\cdot 0$  below the temperature of last week. The wind blew at the rate of 23 kilometres an hour; and the rain-fall measured  $4\cdot 4$  centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 333,158 cubic metres, and at Barking 267,682 cubic metres, equivalent to about as many tons by weight.

TABLE 1. LONDON .- Births and Deaths Registered LAST WEEK, and in the SIXTEENTH Week of Ten previous Years.

Total Births  Male* Females	1861 1961 1007 954	1862 1916 955 961	2080 1052 1028	1864 2000 1033 967	2134 1076 1058	1866 2244 1161 1083	1867 2034 1026 1008	2453 1248 1205	2208 1134 1074	2317 1169 1148	Average of 10 Weeks.  2134.7  1086.1  1048.6	2079 1065 1014
Total Deaths Males Females	1210	1331	1437	1384	1496	1517	1223	1539	1377	1487	1400·1	1578
	639	688	746	690	739	814	643	804	692	755	721·0	790
	571	643	691	694	757	703	580	735	685	732	679·1	-788

Note. -The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

		-				-			Contract of the last	-			
	Jan. 28.	Feb.	Feb.	Feb. 18.	Feb. 25.	Mar.	Mar. 11.	Mar. 18.	Mar. 25.	Apr.	Apr.	Apr. 15.	Apr. 22.
TOTAL Deaths	1632	1683	1749	1625	1633	1591	1601	1576	1665	1564	1493	1722	1578
Deaths under 5 years of age - Deaths 5—20	601 142	603 139	640 166	642 142	627 163	613 174	652 162	616 150	643 151	613 139	573 157	670 174	583 167
Deaths 20—40	224 282 318 65	284 285 306 66	260 281 333 69	247 265 280 49	246 263 267 67	237 259 215 63	244 242 238 63	259 251 256 44	279 276 264 52	251 241 271 49	262 237 197 67	291 262 249 -76	277 244 258 49
Deaths from Smallpox Measles	153 12 65	196 12 49	211 9	218 11 48	227 15 47	213 15 53	194 14 54	185 13 33	205 10 36	192 13 33	214 15 37	265 6 40	276 13 27
", Scarlet Fever - ", Diphtheria - ", Whooping-cough ", Typhus fever - ", Enteric (or Ty-)	8 47 10	6 43 11	10 51 13	58 11	2 54 12	11 53 14	9 67 5	55 10	6 48 12	6 41 7	6 53 8	66 8	4 44 11
phoid) fever - }  phoid) fever - }  Simple Conta fever  Diarrhea  Simple Cholera -	5 10	15 13 14	14 16 14	15 9 14	15 7 14	17 5 13	15 7 15	16 17 9	14 6 9 1	13 11 14 —	11 10 7	9 6	15 7 15
, Phthisis Bronchitis Pneumonia - Heart Disease -	162 250 84 71	174 248 90 82	175 223 83 75	166 194 66 89	138 177 75 94	149 174 92 63	160 176 89 59	178 209 77 67	205 224 94 79	162 193 72 6)	181 149 67 81	182 189 84 66	171 145 80 70
Mean Temperature of the Air	32.4	34.9	41.6	42.7	43.8	45.7	46.3	41.7	47.1	43.8	43.1	48.3	50.0
Mean Temperature of the Water of the Thames -		34.6	40.1	40.5	42.9		45.2	45.2	44.4	47.5	45.7	47.0	50.8
Humidity of the Air	84	91	82	87	81	79	78	81	82	75	76	81	89
Rain-fall in inches	0.54	0.19	0.72	0.02	0.06	0.11	0.47	0.58	0.02	0 03	0.01	0:36	1.75

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S. :—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Harthup, Esq., F.R.A.S., Experimentally, T. R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 22d day of April 1871, in the following large Towns.

					التكنيني		0 0				
	· CITIES	Area	Estimated Population	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE		TEMPERA- TURE OF THE AIR. (CENTI-	RAIN F
	BOROUGHS.	in Acres.	in the middle of the Year 1871.*	to an Aere. (1871.)	during the Week ending 22d April 1871.	during the Week ending 22d April 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.
ı	Total of 20 Towns in the United Kingdom	213,281	7,336,961	34.4	4635	3694	65.2	31.0	47.0	8.33	1.55
-	LONDON	77,997	3,258,469	41.8	2079	1578	62.8	41°3	. 50°0	10.00	1.75
ı	PORTSMOUTH	9,513	125,464	13.2	73	44	62.0	42.0	50.8	10.17	2.06
1	Norwich	7,472	81,787	10.9	57	34	59.2	41.0	46.9	8.58	1.47
1	BRISTOL	4,688	173,364	37.0	121	61				-	-
ı	WOLVERHAMPTON -	3,387	74,438	22.0	45	25	62.5	41.7	48.3	9.05	0.76
١	BIRMINGHAM	7,831	378,574	48.3	238†	145†	60°3	40.8	48.2	9.16	2.26
1	LEICESTER	3,200	101,367	31.7	58	29	65°2	39.7	49.0	9.44	1.54
ı	NOTTINGHAM	1,996	90,480	45.3	41	40	63.0	39.3	49.2	9*55	1.61
ı	LIVERPOOL	5,108	526,225	103.0	353	356	60.2	41.2	48.5	9.16	0.89
ı	MANCHESTER	4,486	379,140	84.2	247	185	61.0	41.0	48.8	9*33 -	1.48
I	SALFORD - \	5,172	123,851	23.9	116	69	59°4	39.0	47.5	8.61	1.63
H	BRADFORD	6,590	148,030	22.5	81	76	59.8	38.6	46.6	8.11	1.48
ı	LEEDS	21,572	266,108	12.3	137	137	59.0	39.0	45.7	7.61	1.79
ı	SHEFFIELD	22,830	255,247	11.5	154	115	62.0	39.0	47.1	8.39	1.74
ı	HULL	3,562	135,195	38.0	72	47	62.0	36.0	44.4	6.89	1.22
ı	SUNDERLAND	3,306	103,037	31.2	57	39	_		_	-	-
1	NEWCASTLE-ON-TYNE	5,336	136,293	25.5	54	83	49.0	38.0	41.0	5.00	0.87
I	EDINBURGH	4,427	179,944	40.6	141	96	51.0	31.0	40.4	4.66	1.80
1	GLASGOW	5,063	477,627	94.3	367	350	58.6	34'8	43.7	6.20	1.36
I	DUBLIN	9,745	322,321	33*1	144	185	62*4	39*5	50.6	10.33	1.89

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d instant, will probe available before the middle of the year, and will then be substituted for these estimates.

† These totals include an average for one sub-district, the return not having come to hand.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Vending Saturday the 22d day of April 1871.

		ANNUAL				Th	e DEAT	cus regi	istered	in the	Week in	clude		
	BOROUGHS, &c.  (Municipal Boundaries for all except London.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.
	Total of 17 Towns -	25	3063	684	548	367	63	71	8	79	91	38	103	200
1	LONDON	25	1578	318	307	276	13	27	4	44	33	15	53	108
I	PORTSMOUTH	18	44	8	14	2	-	3		2	1	1	1	2
I	Norwich	22	34	11	10		-	_	-	1	-	1	2	3
1	Bristol	18	61	12	14		-	2	-	-	1	-	2	5
ı	WOLVERHAMPTON -	18	25	7	6	-	-	-	-	-	1		3	3
1	BIRMINGHAM	20	145	48	20		9	3	1	3	86	1	10	13
I	LEICESTER	15	29	8	8	-		1	-	_	1	1	-	2
I	NOTTINGHAM	23	40	4	12		-	2	-	-	1	-	2	5
1	LIVERPOOL	35	356	94	53	74	12	17	1	13	21	6	13	17
1	MANCHESTER	25	185	38	26	-	17	2	-2	1	8	4	5	20
I	SALFORD	29	69	15	7	4	2	-	-	4	4	2	2	4
1	Bradford	27	76	17	15	-	-	4	-	3	4	1	3	4
1	LEEDS	27	137	30	19	1	1	3	_	1	5	2	1	2
1	SHEFFIELD	24	115	34	11	-	6	3	-	3	4	3	3	9
	HULL	18	47	7	11	-	1	1	-	-	-	- 1	2	2
ı	SUNDERLAND	20	39	10	7	2	-	3	-	3	1	1	1	1
1	NEWCASTLE-ON-TYNE -	32	83	23	8	8	2	-		1	2		- /	-
ı	DUBLIN	30	185	18	32	2	-	2	1	7	9	1	4	8

TABLE 5 .- DEATHS in LONDON Registered in the SIXTEENTH Week of the Year 1871.

TABLE OF		1				_			In the SIXTEENTH WEEK		1			_			
	she ek 61-70.	S	In t	he V	Veek April	endi 22,	ng 1871.			Averages of the Sixteenth Week the 10 years 1861-70.	S	In t	he W	eek Apri	endi l 22,	ng 1871	
	Averages of the Sixteenth Week the 10 years 1861-70.		Deat	ths o	f Per Age	sons	of			ss of the We are 186		Deat	hs of	Per	sons	of	
CAUSES OF DEATH.	teent,	ALL		der	- 40.	. 60.	.80.	and	CAUSES OF DEATH.	rerage teent 10 year	ALL	Un	der		60.		and
	Av Six in the	AGES. Mean	2	0.	under 40.	under	under	rds.		Ay Six	AGES.		0.	under 40.	40 and under	60 and under 80,	rs al
		Tem.	-5.	5-20.	and	40 and	pua	Years upwards.		o ii	Mean Tem.	-0.	5-20.	20 and 1	and 1	and 1	Years
Mean Temperature -	50.2	20.0	0-	5	20	40	09	08	Mean Temperature -	50.2	50.0	0	70	20	40	09	- 80
ALL CAUSES	1400'1	1578	1	167 166	1	244	258	_	9. Stricture of Intestines - 10. Fistula 11. Stomach Disease, &c	1'4 '8 6'7	3 1 4	- - 1	-	1	1 3	1 -	ı
SPECIFIED CAUSES I. ZYMOTIC DISEASES.	1388.6	1572	0/8	100	211	244	258	49	12. Pancreas Disease, &c	3:7	3 4 15	-	-	-	ī	2	ı
ORDER 1.	18.3	276	84	77	88	22	5	Į	14. Jaundice	2·9 17·0 •2	15	1	ī	5	6	3	ı
2. Measles 3. Scarlet Fever (Scarlatina) 4. Diphtheria	33 · 2 44 · 5 9 · 1	13 27 4	13 17 3	9	ī	-	-	E	ORDER 5.	1.0	1						ī
5. Quinsy 6. Croup	9°1 1°0 15°7	15	12		_	-	-		2. Ischuria 3. Bright's Disease (Nephria)	8.9	-	1	-	3	1 1 1	3	
7. Whooping-cough 8. Typhus	71.6	11 15	41 4 3	3 3 1 5 2	4	2	- 2	٥	4. Diabetes	1.7	8 2 3	3	=	1	~	2	ı
- Simple continued Fever -) 9. Erysipelas 10. Puerperal Fever (Metria)	6.4	7 9	1 2	2 -	2 2	3	1 2	۸	7. Kidney Disease, &c ORDER 6.	8.7	14	-	-	1	5	8	
11. Carbuncle	*9	1	-	-	-	-	1	Ē	1. Ovarian Dropsy 2. Uterus Disease, &c	4.1	1 3	-	-	-	3	-	
13. Dysentery 14. Diarrhœa 15. Simple Cholera	16:0 2	15	11	ī		1	î -	ī	ORDER 7. 1. Synovitis (Arthritis)	3	1	_	_	_	1	_	
16. Ague	·3 ·9 7·4	1 14	- - - -	14	- 2	- 6	2	Ē	2. Joint Disease, &c ORDER 8.	7.0	10	ĩ	1		14	4	F
19. Other Zymotic Diseases -		-		-				Ľ	1. Phlegmon	2.4	2 1 3	1	=	-	1	- 1	ı
1. Syphilis	8.8	7 3	7 -	-	-	-	3	Ē	3. Skin Disease, &c IV. DEVELOPMENTAL	1.5	3	2	1		-	_	E
3. Hydrophobia 4. Glanders		=	=	=	-	-	-	Ē	DISEASES. ORDER 1.			н					
1. Privation	6.7	7	7 3	-	-	-	-	-	1. Premature Birth	19.7	22	22	-	-	-	-	
3. Purpura and Scurvy - 4. Alco-   a Del. Tremens - holism   b Intemperance -	3·1 2·2 1·7	5 2 1	3	=	ī -	1 2 1	-	i	3. Spina Bifida 4 Other Malformations - 5. Teething	2.5 20.3	2 25	2 25	=	-	-	-	
ORDER 4.	2.1	1	1	-	_		_		ORDER 2.			20		_		_	
2. Worms, &c II. CONSTITUTIONAL DIS.	6	-	=	-	-	_		Ē	1. Paramenia 2. Childbirth (see Puer-) peral Fever)	5.5	7	-	-	7	-	_	
ORDER 1.	2.2	2				1	,		ORDER 3.	51.3	54	_				07	01
2. Dropsy	13.6	6 28	4	-	7	16	1 2 5	Ē	1. Old Age ORDER 4.			-			-	27	2
4. Cancrum Oris (Noma) - 5. Mortification	3.6	2	Ξ	-	_		2		1. Atrophy and Debility - V. VIOLENT DEATHS, &c.	61.4	57	49	-		5	3	
ORDER 2.  1. Scrofula  2. Tabes Mesenterica	8·4 17 9	14 16	8 15 11	1	2	1	2	E	ORDER 1.								
3. Phthisis 4. Hydrocephalus	176.4 33.2	171 21	11 16	19	77	51	13		(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions  2. Wounds	14:7	20	2	5	3	4	6	
III. LOCAL DISEASES. ORDER 1.									2. Wounds 3. Burns and Scalds 4. Poison	5.8	2 7 1	4	-	1	1 1	2 -	E
1. Cephalitis	14°5 33°9	23 37	13 3	7	1 4	13	13	- 3 4	5. Drowning 6. Suffocation 7. Otherwise	5.6 6.9 1.3	7 4 1	4	2 -	4	1 - 1	=	1
3. Paralysis	28'1 1'2 '1	24	Ē	-	2 -	2 -	16 1	B	ORDER 3.			-					
6. Epilepsy 7. Convulsions 8. Brain Disease, &c	6.9 55.0 18.2	3 57 20	55 5	1 - 3	1 -	1 1 2	1 8	- - 1	(Homicide.)  1. Murder and Manslaughter	3.0	1	1	-	_	_	_	
ORDER 2.	2:0				-	_	-		ORDER 4. (Suicide.)								
2. Aneurism	2·7 57·3	3 70	2	1 2	19	20	26	1	Wounds   Gunshot -	1.3 1.4	2 -	-	-	-	2	-	-
ORDER 3. 1. Laryngitis 2 Bronchitis	9.5	11 145	8 59	2 2	-7	16	1		2. Poison	1·4 *8 •8 •4	1 4 2	-	=	1	1 2 1	1	E
3. Pleurisy	88.0	80	1 41	1 2	10	10	54 1 14	3	5. Otherwise		1		-	_	1		-
5. Asthma 6. Lung Disease, &c	9.8	13	6	ĩ	6	6 2	5 3	_	(EXECUTION.)	4.							
ORDER 4.  1. Gastritis  2. Enteritis	1°2 4°3 4°8	2 4	111	=	-	- 3	2	-	1. Hanging	-1	-				_	-	
3. Peritonitis	2.8	6 1	1		8 -	1	1	1	Violent Deaths (not classed) Sudden Deaths (Cause un-)	*3	-	-		_	_		E
6. Hernia	2·4 2·9 2·3 ·9	6 1 2 2 2 4		1	-	1	1	-	causes not specified or ill-	2·8 8·7	1 5	1 4	1	-	-	-	j
8. Intussusception	.9	4	1	-		2	1	-	defined}						1		

ABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

												du	ring	the	w ee	k en	ding
		during	during				The	DEAT	ns re	gistere	ed in	the V	Veek i	nelud	3		
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS dur	Total DEATHS dur the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	2,803,989	2079	1578	318	307	276	13	27	4	44	11	15	7	15	53	108	334
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	458,125 618,210 383,321 571,158 773,175	292 481 195 446 665	268 412 150 285 463	55 81 80 58 94	64 72 23 63 85	20 112 12 36 96	2 2 5 4	3 4 2 2 16	1 1	10 14 1 7 12	6 - 2 3	2 8 4 3	1 - 2 4	5 5 4 1	12 7 11 7 16	29 20 23 18 18	47 116 30 49 92
WEST DISTRICTS.  St. Mary Paddington WH St. John Paddington H Kensington Town WL Brompton H St. Peter Hammersmith St. Paul Hammersmith H St. Paul Hammersmith H St. Paul Hammersmith H St. Paul Hammersmith H St. Pulham WLLLL Chelsea North-west H Ww Chelsea North-west H Ww Chelsea North-west H Ww St. John Westminster H St. John Westminster H H St. John Westminster WWIIH St. James's Square Golden Square W Berwick-street St. Anne Soho H H	39015 36769 51910 18198 51910 18198 15539 21654 19899 21886 19773 12885 55113 37483 30730 10753 13966 10607 17426	33 13 52 14 3 26 16 14 13 4 13 2 23 23 9 6 8 6	28 12 44 9 12 8 15 14 10 6 6 26 27 27 27	11 13 1 4 - 2 4 6 1 - 5 5	6 6 5 3 -2 4 6 4 2 1 3 5 4 10 1	4-11-1	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	3 - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 10 - 2 2 5 8 3 2 1 3	6 2 8 1 - 1 1 2 2 - 4 5 19 1
NORTH DISTRICTS.  All Souls Marylebone HH Cavendish Square Reatory Marylebone WH St. Mary Marylebone H Christchurch Marylebone H Christchurch Marylebone St. John Marylebone Hampstead WHH Regent's Park Pancras Tottenham-court wH Gray's Inn Lane H Somers Town Camden Town W Kentish Town W Lelington West's WHHH Islington East Www Stoke Newington L Stamford Hill West Hackney Hackney WwHL South Hackney L	29952 15190 26592 22493 34913 32540 19106 34927 29371 27808 39099 3266 44317 75442 79899 6698 5483 24265 31481 15438	27 11 16 17 24 14 14 14 22 21 27 16 37 52 72 7 1 18 33 18	4 2 18 15 17 12 50 18 14 11 16 11 32 43 48 3 4 21 60 13	1 -5 4 6 1 1 6 2 4 4 8 10 11 -2 2 9 4	1 -4 55 3 1 2 4 3 3 3 4 8 1 1 -2 8 2 8 2	1 - 1 44 3 - 1 5 - 4 14 6 2 27 3				1 2 - 1 1 8 2 - 1 2 1	1 2 1 3 1 1 1	1			1 2 2 1 1	3 - 3 - 4 5 1 1 -	2 6 1 1 46 3 -7 4 11 3 -7 4 11 3 -7 4
CENTRAL DISTRICTS.  St. Glores Bloomsbury - St. Giles South WH - St. Giles North	17392 19483 17201 11618 11071 10346 12307 19903 12947 12912 19152 17250 13079 16200 11304 17860 14778 12931 20990 14780 15762	11 19 7 8 8 2 4 12 10 8 12 14 17 14 13 14 15 7 11 4 8 8 8 8 8 12 13 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	782 24114 278 1168 78 7148 7614 428 3285	2 3 3 - 1 1 2 2 2 2 2 2 1 1 - 3 1 1 2 1 - 1	1 2 - 3 - 1 3 2 3 1 1 3	1 7 1 7 1 7 1 7 1 7 1 7 1	1		1	1		1	THE THE PERSON OF THE PERSON O		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 - 2 8 8 - 1 1 1 2 2 - 1 1 1 5 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 5 12 3 1 7 1 5 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

w—Workhouse; H.—Hospital; L.—Lunatic Asylum; w—A Workhouse not belonging to the district in which it is situated.

The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 22d April 1871

		during	during				The 1	DEATE	is reg	istere	d in	the W	eek ir	relude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
EAST DISTRICTS.	17313 19188 26516 25777 23260 17310	5 23 22 20 13	7 9 10 6 16 7	1 2 2 1	1 3 3 2 4	2 - 3 2	1111111		11111	- - - -			1		111111	1	3 1 - 5 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	18 33 19 13	14 25 10 3	2 5 5 1	3 3 1 1	5 7 3 -	1111	1 -		-		1111	1111	1	1111		7
Artillery Whitechapel Soitalfields	6557 15700 15392 12122 8062 11166 9971	3 7 6 5 3 2	1 6 22 3 7 1 6	1 1 1 - 2	2 5 1 2 - 2	2 4 1 -	1		111111	1	111111	111111		111111	2 1	1 4 - 3 - 1	12 4
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	16 14 5	7 12 5	1 4 2	1 1 1	1 -	1 -	-	-	2 -	-	-	1	111.	1111	=	
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The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.
The Strand
London City - ", Tottenham-court sub-district.
London City - ", Islington East.

Do. do. - ", Hackney sub-district.
St.

However, Additional Control of the C

<sup>†</sup> Lunatic Asylums where paupers are admitted.

1 14

[Under the Superintendence of the Astronomer Boyal.]

I A COMMON MACOCAL MANAGEMENT PROPERTY

							1	Met	eore	ologic	al C	bse	rva	tions.						
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RAIN.	10		is 5 in. above the ground.	Inches	0.55	0.44	0.04	0.05	0.12	Sum 1.75	95	ve the p	nt with t re taker eter, the	The mean daily of the dry and	include P.M., as terminec	The average ical observa- December 31	d – "lou nderstoo	lf-registe	the wee	decreased, decreased on the week
	Robinson's	Amount of	Movement of Air each day.	Miles.	476	217	397	284	353	Sum 2437	24	feet abc	dered to be coincident with those The observations are taken at adjuce of the barometer, the dry	converte ther, F.R. 1848. The values of	solumn 7, and 9h.	to each. rmometr	gher, an	use of se at the de ered und	the smp, by permission of LieusCol. an Police. 29:32in. at the beginning of the week to in by 10h w on the same day, decreased	9h. A.m. on the 18th; decreased to y 3h. P.m. on the 20th; decreased 29.64in. by 1h. A.m. on the 22d; 29.55 in. at the end of the week.
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	nemom	enbs uo	Least.	lbs.	0.0	0.0	0.0	0.0	0.0	:	22	ed to	-	se time ans., p	xhibite on; 3b	sing ar from t	+ is reservati	ined Police	up, oy e. at th	9h. A. by 3h. 29.64
WIND.	1 from A	Pressure on squarefoot	Great-	lbs.	16.8	1.6	12.5	1.0	9.11	:	55	nsider	re cons neter.	at the cod by hil. Tr	bers e	sions b laisher n the	d that cal ob	ascerta pion" rumen	the sr n Polic 9°32 in.	to 29.25 in. by to 29.25 in. by increased to lay; and was 2
	As deduced from Anemometers	10180	P, M.		WSW. &	SE. &	Þ		WSW&W	. W.	50	neter is co	barometer are considered to be consident with those and are barometer. The observations are taken at The means of the readings of the barometer, the dry	observed stions dedu r 31.—See F duced from	or the num sad at 9h. A num and mi	oper corrected by Mr. Girenwich	orne in min meteorologi ht to midni	Thames is of the "Sconf these inst	on poard Metropolita sed from 2 d to 29:35 i	ased to 29.5 cased to 29.5 day; increa
		General Direction,	A. M.		SW&WSW SW. NE.	SSW. &	SSW.	W.&NW.	WSW&SW	S. O.	19	The height of the cistern of the barometer is considered to be 159 feet above the mean		thermoneter, and the wet thermometer, observed at these times, are converted into mean dealy values ob the application of convertions deduced by James Galsilee, F.R.S., from five years' observations ending 1835. December 31.—See Pist, Trans., part 1, 1848. The mean daily expensions ending 1845, December and the convertigation of the day and the point of the day and the convertigation of the day and the day and the convertigation of the day and th	we would altinomanow by draws xxxx, when we exhibited in column 7, include the for mean daily temperature of the sir, or the numbers exhibited in column 7, include the severations of the difference read as h. x. x. incor; sh. x. x. x. and N. x. x. as well as the results deduced from the maximum and minimum thermometers, as defermined by	the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. (Haishter from the thermometrical observations telean at the Royal Observations Geomyich in the fit years entities 1803. Becomber 80	*In reading the 17th column it will be borne in mind that + is read "kinker," and - "boner," than the average. The results of all the measorological boservations are to be understood as applying to the civil day, or from midnight to midnight.	The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Soxption" Police Ship, at the depth of about 2 feet below the surface, The readings of these instruments are registered under the super.	internation of the resident inspector on oastu the sing Harderson, R.E., C.B., Commissioner of Metropolitan Police. The reading of the barnoter decased from 29 323. a 90-34: It wells a won the left of the second part of the second part of the barnoter decased for the part of the barnoter decased for the part of the part of the barnoter decased for the part of the barnoter decased for the part of the	to 29.25 in. by 9h. A.M. on the 17th; increased to 29.52 in. by 9h. A.M. on the 18th; decreased to 29.75 in. by 3h. P.M. on the 20th; increased to 29.75 in. by 3h. P.M. on the 20th; decreased to 29.75 in. by 11\hat{4}h. P.M. on the same day; increased to 29.64 in. by 1h. A.M. on the 22d; decreased to 29.65 in. by 1h. A.M. on the same day; and was 29.55 in. at the end of the week.
Degree	0		sented by 100.		88	66	93	20	16	68	18	cistern	oy's flint	ne wet that population of hum	dry ther	hermome air is tha Royal Ob	th columnia the result day, or fi	of the wanded fro	resident B., Comme baroum	f. on the on the P.M. on by 4h. r
B(	Between mean tem-	the day and mean tem-	the same day on an average of 50 years.*	C	+ 5.2	+ 4.0	+ 3.9	+ 2.7	+ 4.6	9.6 +	17		level of the sea. The readings of the of the Royal Society's flint glass st 9h. A.W.: noon: 3h. P.W.: and 9h. P.W.	ter, and the se by the arvations eland degree	daily temporate of the ults deduc	ristering tre of the	*In reading the 17th than the average. Tapplying to the civil	perature ters, suspe w the surf	n, R.E., C.]	by 9b. A.n. 3b. 3h. P.M. by 114h. to 29°51 in
DIFFERENCE	Point	ure	Least.		0.8	0.0	0.0	1:7	0.0	0.5	16	ne heig	of the	y value s' obse	mean rvation	self-reg peratu s take	In read	he ten rmome st belo	ndersol ndersol he rea	to 29.25 in. 29.01 in. by to 29.15 in. decreased to
DIF	Between Dew Point Temperature	Air Temperature	Great-		15.3	÷ o	0.6	12.3	9.3	9.3	15	E.	of t			tem		the 2 fee		
	Betwe	Air	Mean daily value.			0.5	2.1	7.5	2.1	3.1	14			fell fre-	in the		COVALE		Ogeasional	9h. A.k
	In the Water of	Greenwich, by self-registering	lighest. Lowest	-	48.6	48.2	50.0	48.0	48.5	48.9	1.8	E.		avy rain	s of rain		was generally covered		riable. O	l between
			Highest.	- (	51.4	52.4	53.4	53.1	53.1	52.7	12	PHER		and "he	вһожег		вку was		ards va	Rain fel
TERS.	Lowest on the Grass, as	shown by a self- register-			40.1	39.5	40.2	41.9	41.0	40.5	=	ATMOSPHERE		ternoon,	al heavy			ally.	g. afterw	ariable.
READINGS OF THERMOMETERS	Highest in the sun, as shown by	a self-regis- tering Thermo	blackened bulb in vacuo, placed on the Grass.	- (	90.5	73.8	81.3	88.2	0.62	85.9	10	AND		lly cloudy till the afternoon, and heavy rain partia ly clear at night. A gale of wind.	Occasional heavy showers	Rain fell heavily.	during the morning; the	Rain fell occasionally	Generally cloudy till evening, afterwards variable, lowers of rain.	till noon; then variable. Rain fell between 9h, A.M.
AS OF T	Dew Point.	Mean	daily talue.	i	47.2	49.8	48.2	42.5	49.1	46.8	6	NKY		cloudy tia ly el	cloudy.	Rain fel	luring t Il evenir	Rain fe	cloudy	noon II
READING		Mean	daily value.		50.7	50.0	50.3	49.7	51.8	20.0	00				₾.	Overcast.	rg rg	Overcast.	nerally cloters of rain.	٠, د
	.7.	Range	in day.		10.0	9.2	14.8		13.5	12.6	-			General quently;	Partial morning	040	Rain fa		-6	Overcas and noon
	Dry		Low-		47.0	45.6	44.5	46.5	48.7	45.7	9		-	ns not				tension positive.	ve were	٠
_		_	High-		57.0	55.1	59.3	56.9	62.5	58.3	l un	CITY.	AN NEWS	amp w	вћожп.	shown.	shown.	oderate it weak	i negati	night.
BARO-	Mean	rected and re-	duced to 32 degr. Fahren-heit).	i.	29.273 57.0 29.355 62.8	29.394	29.045	29.490	29.558	29 - 333	4	ELECTRICITY	-	ulatinz 1 naving be nd.	No electricity was shown.	No electricity was shown	No electricity was shown	s, with m	sitive and	Weak positive at night.
Moon.		Phases	Moon.		::	In		::	:	:	00	E		The insulating lamp was not burning, having been blown out by the wind.	No elect	No elect	No elect	Negative, with moderate tension about noon; at night weak positive.	Weak positive and negative were shown in the afternoon.	Weak p
			DAY		.   16	18	.y 19		. 22	1 :	num			16	17	81	19	20	21	22
	10 1	18/1	MONTH AND DAY.	APRIL	SUNDAY	TUESDAY	WEDNESDAY	FRIDAY	SATURDAY.	MEANS	No. of Columns	DATE.	APRIL.	SUNDAY.	Mondar .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAT .	SATURDAY.

LONDON: Printed by GRORGE E. BYER and WILLIAM SPOTTISWOODS, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Office.

## WEEKLY RETURN

#### IN LONDON BIRTHS AND DEATHS AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 17. 1871. Vol. XXXII.] Week ending Saturday, April 29. [Price 11d.

General Register Office, Somerset House,

During the week ending Saturday the 29th ultimo, 5331 births and 3573 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week was at the rate of 25

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the SEVENTEEN ENGLISH CITIES and Towns, in the order of their topographical arrangement, were as follow:—
London 24 per 1000; Portsmouth 16, Norwich 2!, Bristol 23, Wolverhampton
21, Birmingham 22, Leicester 19, Nottingham 15, Liverpool 33, Manchester 26,
Salford 32, Bradford 25, Leeds 31, Sheffield 23, Hull 19, Sunderland 16, and
Newcastle-upon-Tyne 31. The fatal cases of small-pox in these towns, which in the two previous weeks had been 347 and 367, were last week 357; of these 261 occurred in London, 74 in Liverpool, 12 in Newcastle-upon-Tyne, 6 in Salford, and 2 each in Manchester and Sunderland. The annual death-rate from small-pox last week was equal to 7 per 1000 in Liverpool, 5 in Newcastle, and 4 in London.

In Southampton small-pox became epidemic towards the end of last quarter, and in the three weeks ending 1st April, 19 fatal cases were recorded. In the past four weeks of the current quarter, ending last Saturday, 24, 12, 14, and 27 deaths respectively have been referred to this disease. The annual death-rate from small-pox in the past four weeks has been 18 per 1000 persons estimated to be living in the district. The registrar reports that prior to this outbreak vaccina-

tion was much neglected.

In Edinburgh the annual rate of mortality from all causes last week was 32 per

1000 persons living, in Glasgow 36 per 1000, and in Dublin 25.

In Brussels 147 deaths occurred in the week ending 22d ultimo, and the annual death-rate was 39 per 1000; these deaths included 37 from small-pox, a decrease of 8 upon those in the preceding week.

In the City of New York 508 deaths were registered in the week ending

8th ultimo, and the equivalent annual rate of mortality was 28 per 1000.

In Bombay the deaths registered during the week ending 4th ultimo were 320, and the mortality was at the annual rate of 20 per 1000. In Madras 256 deaths were registered in the week ending 17th March, showing an annual death-rate equal to 31 per 1000 of the population.

In LONDON 2250 BIRTHS and 1469 DEATHS were registered last week. After making due allowance for increase of population, the births were 86, and the deaths 13, below the average numbers in the corresponding week of the last

ten years.

Zymotic diseases caused 445 deaths last week, including 261 from small-pox, 12 from measles, 30 from scarlet fever, 7 from diphtheria, 45 from whooping-cough, 37 from different forms of fever (of which 10 were certified as typhus, 13 as enteric or typhoid, and 14 as simple continued fever), and 14 from diarrhea; thus to the seven principal diseases of this class 406 deaths were referred last week, against 418 and 412 in the two preceding weeks.

The fatal cases of small-pox in London, which in the four previous weeks had steadily increased from 192 to 276, declined last week to 261. In seven permanent and temporary special hospitals for this disease 87 deaths were recorded last week, of which 28, 19, and 17 occurred respectively in the institutions at Hampstead, Stockwell, and Homerton. After distributing, so far as is practicable, these deaths

in hospital among the districts from which the patients were admitted, it appears that 18 deaths from small-pox last week belonged to the West group of Districts, 78 to the North, 22 to the Central, 46 to the East, and 97 to the South. fatal cases showed an increase in the North Districts, but had declined in each of the other groups. The disease was last week most fatal in Battersea, Newington, Bethnal Green, and Islington.

In a very large proportion of the deaths from small-pox the fact of vaccination or otherwise cannot be obtained from the Death register through the omission on the part of the medical profession to enter that information in their certificate of the cause of death. In order as far as possible to supply this information a circular was addressed to the registrars of London and Liverpool in the latter part of January last, authorizing them to insert this fact in the register, whenever they could obtain apparently reliable information from the informant who came to register the death. It is evident that partly from ignorance on the part of the informants, and to some extent from a vague dread of prosecution in cases of non-vaccination, the information that has been so obtained is not exact. In the 12 weeks ending last Saturday of the 2662 fatal cases of small-pox in London 1212 have been returned as unvaccinated, 973 as vaccinated, and 477 as "not stated." Now let the health officers of each district be authorized to inquire how many in a hundred children, and in a hundred adults, are vaccinated perfectly, imperfectly, or not at all; and then compare the deaths with the living in the three several classes, and the protective influence of vaccination will be manifest. By way of illustration, assume for a moment that the 973 victims said to have been vaccinated had really had cow-pox, and that nine tenths of the population of London is so protected, then the mortality among them during the past twelve weeks has been at the annual rate of 1.4 per 1000, while among the unvaccinated it has been at the rate of 16.2 per 1000.

Dr. Frankland in his report on the quality of the Metropolitan water supply during April calls attention to the following facts: The water delivered by the Southwark Company on 13th ultimo contained "numerous living organisms;" that drawn from the Lambeth Company's main on the same day was also slightly turbid, but it was devoid of living organisms. The East London Company on 12th was delivering slightly turbid water, containing "vegetable fibres and living organisms." With respect to the most objectionable impurity in potable water, organic matter, the water supplied by the Kent Company was again the best; it contained but a sixth as much of this impurity as the best sample delivered by any of the companies drawing their water from the Thames, and only a tenth of that contained in the worst sample from that source. The New River Company's water contained about half as much organic matter as was present in Thames water. The best sample of Thames water was delivered by the Grand Junction Company, which contained but little more than half as much organic matter as that delivered by the Southwark Company two days before. When purified by Clark's process the Grand Junction Company's water approached that of the New River Company in its freedom from organic matter, while its total solid impurity was reduced to less than one half, and its hardness to less than one fourth, of that of the New River Company's water.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.66 in.; the highest reading was 29.91 in. on Tuesday morning, and the lowest 29.34 in. on Saturday at noon. The mean temperature of the air was 50° 7, or 2° 7 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 64° 9 on Saturday, the lowest night temperature 42° 7 on Monday and Wednesday; the entire range of temperature in the week was, therefore, 22°.2. The highest temperature in the sun was 124°·1 on Saturday. The mean temperature on Monday was 45° 0 and 2° 6 below the average, while it showed an excess on each of the other days of the week, the warmest day being Saturday, when the mean was 53°.9, showing an excess of 5°.1. The difference between the mean dewpoint temperature and air temperature averaged 4°.5. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 51°.9 last week. The mean degree of humidity of the air was 85, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air in the week averaged

11 miles per hour. Rain fell on each day of the week, except Tuesday; the total amount measured was '80 of an inch, of which more than half fell during

Saturday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 45°·6 in Newcastle, to 51°·3 in Portsmouth; the lowest recorded night temperature was 28°·0 in Hull, and the highest day temperature in the shade 66°·5 in Leicester. Rain was measured last week in each of these towns; the amount varying from '36 of an inch in Liverpool, to 1·10 in Manchester.

In Centigrade degrees the mean temperature of the air last week at Greenwich was  $10^{\circ}.4$ ; the highest day temperature in the shade was  $18^{\circ}.3$ ; the lowest night temperature  $6^{\circ}.0$ ; the highest temperature in the sun was  $51^{\circ}.2$ . The mean temperature of the corresponding week in 50 years averaged  $8^{\circ}.9$ , or  $1^{\circ}.5$  below the temperature of last week. The wind blew at the rate of 18 kilometres an hour, and the rain-fall measured 2.03 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 262,166 cubic metres, and at Barking 274,025 cubic metres, equiva-

lent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

The REGISTRAR GENERAL has to acknowledge the courtesy of the London Water Companies, who have furnished him with the average daily quantity of Water supplied for the month of March 1871: thus, according to their account, 101,557,556 gallons or 461,423 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 95·1 decalitres, rather less than a ton by weight, to each house, and 13·4 decalitres (=29·5 gallons) to each person.

Companies.	1	Houses, &c.	in Gallons (in Manufactures purposes other	upply of Water eluding that for and for various or than for do- inption) during
	FEBRUARY	MARCH	FEBRUARY	MARCH
	1871.	1871.	1871.	1871.
TOTAL SUPPLY	483,566	484,969	100,782,216	101,557,556
From Thames . From Lea and from other Sources .	223,314	224,689	52,508,912	53,825,041
	260,252	260,280	48,273,304	47,732,515
THAMES. Chelsea West Middlesex Southwark and Vauxhall Grand Junction Lambeth	27,670	27,670	7,663,600	7,868,600
	41,564	41,747	8,705,733	8,832,296
	77,293	78,321	16,427,390	16,429,172
	30,929	30,929	10,291,949	10,855,102
	45,858	46,023	9,420,240	9,839,871
LEA AND OTHER SOURCES.  New River East London Kent	118,477	118,505	20,937,000	<b>20</b> ,98 <b>2,000</b>
	101,852	101,852	20,237,900	19,806,800
	39,923	39,923	7,098,404	6,943,715

Note.—The Return for March as compared with that for February shows an increase of 1403 houses, and of 775,340 gallons of water supplied daily.

#### ANALYSIS OF METROPOLITAN WATER SUPPLY FOR APRIL.

Sir, Royal College of Chemistry, 29th April, 1871.

I HAVE the honour to submit to you in the following Table the results of the chemical examination of the waters supplied to the Metropolis during the month of April, and I append also the results yielded by the Grand Junction Company's water after the application of Clark's process of purification, together with the results of the analysis of the Birmingham water supply furnished by Dr. Hill.

The water delivered by the Southwark Company on the 13th instant was slightly turbid, and contained numerous living organisms; that drawn from the Lambeth Company's main on the same day was also slightly turbid, but no living organisms were found in it. On the 12th instant the East London Company was delivering slightly turbid water in the Old Ford Road, containing vegetable fibres and living organisms. Another sample collected opposite Limehouse Church from the same Company's main on the 18th instant was clear and transparent.

In respect of the most objectionable impurity in potable water, viz., organic matter, the best sample was again that obtained from the Kent Company's main; it contained only one sixth as much as the best sample delivered by the companies

p o

drawing their supplies from the Thames, and only one tenth as much as the worst sample from the latter source. The New River Company's water, derived partly from springs and deep wells, contained about half as much organic matter as is present in Thames water. The best sample of Thames water was drawn from the Grand Junction Company's main; it contained but little more than one half as much organic matter as that delivered by the Southwark Company two days previously.

When purified by Clark's process the Grand Junction Company's water approached that of the New River Company in the smallness of the proportion of organic matter which it contained, whilst its total solid impurity was reduced to less than one half, and its hardness to less than one fourth, of that of the New

River Company's water.

Dr. Hill reports that the water supplied to Birmingham on the 6th instant was slightly turbid, and that the organic matter in it, though moderate in quantity, was highly nitrogenised, indicating an animal origin.

The Registrar General, &c., &c.

I have, &c. E. Frankland.

RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

	TESUETS OF TENALISIS						,				
Companies.	Date and Place of Collection.	Temperature in centigrade degrees.	Total Solid Impurity.	Organic Car- bon.	Organic Nitro-	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sewage or Animal Contamination. (Estimated.)	Chlorine,	Total Hard-
THAMES. Chelsea	{ Cab Rank, Horse Guards }	10.6	26.60	*135	*022	*000	•179	*201	1470	1.73	20.0
West Middlesex -	{ Cab Rank, Portland Road }	11.9	27.84	•128	.018	.000	•183	•201	1510	1.73	20.6
Southwark and Vauxhall	{ Cab Rank, St. George's Church, Borough.	11.4	27.74	•209	•028	.000	178	*206	1460	1.73	20.6
Grand Junction -	$\left\{\begin{array}{c} 15 \mathrm{th} \ \mathrm{April,} \\ 14, \mathrm{Lancaster} \ \mathrm{Gate, Hyde} \\ \mathrm{Park.} \end{array}\right\}$	9*4	26.22	•109	*022	•000	•183	*205	1510	1.73	20.6
Ditto, softened by Clark's process -	$\left\{ \begin{array}{c} {\rm 15th\ April,} \\ {\rm 14,\ Lancaster\ Gate,\ Hyde} \end{array} \right\}$	11.1	12.18	•080	*013	•000	199	*212	1670	1.73	4.2
Lambeth	$\left\{ \begin{smallmatrix} 13th & April, \\ Cab & Rank, Lambeth-road \end{smallmatrix} \right\}$	10.8	26.04	*116	.019	.000	•176	•195	1440	1.73	20.6
OTHER SOURCES. New River	{ Cab Rank, Tottenham- court-road. }	10.6	25.74	•057	.006	*000	•199	*205	1670	1.55	20.6
East London	{Slater's Lamp Black Wrks.,} Old Ford-road.	11.7	26.08	•136	*029	*000	•179	•208	1470	2.10	19.1
Ditto	{ "Cape of Good Hope," opposite Limehouse Ch. }	13:6	26*26	*135	•021	•001	*135	157	1040	2.10	19.4
Kent	$\left\{ \begin{array}{c} {\rm 12th\ April,} \\ {\rm Deptfd.\ Bdge.\ Police\ Stat.} \end{array} \right\}$	12.2	40.94	.018	*005	.000	*510	*515	4780	2*49	29.0
Birmingham*	{ 6th April, Birmingham Waterworks }	-	23.70	*104	*055	*002	•237	•238	2067	1.23	16.8
Column 1.	2.	3.	4.	5.	6.	7.	8.	9.	· 10.	11.	12

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 13th April at the Horse Guards' cab rank had a temperature of 10° 6 C.; 100,000 lbs. of it contained 26 60 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained '135 lb. of carbon and '022 lb. of nitrogen. The above quantity of water contained no ammonia, and '179 lb. of nitrogen in the form of nitrates and nitrites, whilst the total amount of combined nitrogen in every form was '201 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contaminated with animal matter equivalent to that contained in 1470 lbs. of average London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 1 '73 lbs. of chlorine. Finally, 100,000 lbs. of the water contained 20 00 lbs. of carbonate of lime, or an equivalent quantity of other hardening or soap-destroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation

transforms the hardness in the Table into degrees of hardness on Clark's scale.

TABLE 1. LONDON .- Births and Deaths Registered LAST WEEK, and in the SEVENTEENTH Week of Ten previous Years.

TOTAL Births  Males Females .	1861 1858 930 928	1862 1959 994 965	1863 1963 958 1005	1864 1946 1006 940	1865 2205 1140 1065	1866 2187 1080 1107	2385 1240 1145	1868 2307 1200 1107	1869 2165 1092 1073	1870 2268 1173 1095	Average of 10 Weeks.  2124·3  1081·3  1043·0	2250 1161 1089
TOTAL Deaths  Males Females .	1182	1394	1408	1307	1344	1492	1280	1378	1288	1394	1346·7	1469
	610	684	697	679	679	764	702	714	682	712	692·3	.745
	572	710	711	628	665	728	578	664	606	682	654·4	724

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. L()NDON.—Comparative Table of Results in the Last Thirteen Weeks.

													-
	Feb.	Feb.	Feb. 18.	Feb. 25.	Mar. 4.	Mar. 11.	Mar. 18.	Mar. 25.	Apr.	Apr. 8.	Apr. 15.	Apr. 22.	Apr. 29.
Total Deaths	1683	1749	1625	1633	1591	1601	1576	1665	1564	1493	1722	1578	1469*
Deaths under 5 years of age - Deaths 5-20	603	640 166	642 142	627 163	643 174	652 162	616 150	643 151	613 139	57 <b>3</b> 15 <b>7</b>	670 174	583 167	582 158
Deaths 20—40 Deaths 40—60	284 285	260 281	247 265	246 263	237 259	244 242	259 251	279 276	251 241	262 237	291 262	277 244	248 226
Deaths 60—80 Deaths at 80 years & upwards	306	333 69	280 49	267 67	63	238 63	256 44	264 52	271 49	197 67	249 76	258 49.	212
Deaths from Small-pox Measles	196 12	211	218 11	227 15	213 15	194 14	185	205 10	192 13	214 15	265 6	276- 13	261 12
" Scarlet Fever - " Diphtheria -	49 6 43	46 10 51	48 8 58	47 2 54	58 11 53	54 9 67	33 3 55	36 6 48	33 6 41	37 6 53	40	27 4 44	30 7 45
" " Typhus fever - " Enteric (or Ty-)	11	13	11	12	14	5	10	12	7	8	8	11	10
phoid) fever - ∫ ,, SimpleCont <sup>4</sup> fever ,, Diarrhα a	13	16 14	9	7 14	5 13	7 15	17 9	6 9	11	10	9	7 15	14
", Simple Cholera - ", Phthisis	174	175	166	1 138	1 149	160	178	205	162	181	182	171	158
,, Bronchitis Pueumonia -	248 90 82	223 83 75	194 66 89	177 75 94	174 92 63	176 89 59	209 77 67	224 94 79	193 72 69	149 67 81	189 84 66	145 80 70	133 72
Mean Temperature of the Air	34.9	41.6	42.7	43.8	45.7	46.3	41.7	47.1	0 43.8	43.1	48.3	50.0	64 50.7
Mean Temperature of the Water of the Thames -	34.6	40.1	40.5	42.9	43.8	45.2	45.2	44.4	47.5	45.7	47.0	50.8	51.9
Humidity of the Air	91	82	87	81	79	78	81	82	75	76	81	89	85
Rain-fall in inches	0.19	0.72	0.02	0.06	0.11	0.47	0.28	0.02	0.03	0.01	0.36	1.75	0.80

<sup>\*</sup> The return for the sub-district of Eltham was not received when the tables were under preparation, but an average of 2, derived from the returns of six previous weeks, is substituted for the true number, which is 4.

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Sheffled; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 29th day of April 1871, in the following large Towns.

							0 0					
THE RESIDENCE OF THE PERSON.	CITIES	Area	Estimated Population	Persons	BIRTHS registered	DEATHS registered		TURE OF	THE AIR.	THE AIR.	RAIN	FALL.
	AND	in	in the	to an	during the	during the		. ,	Weekly	GRADE.)		_
		Acres.	middle of the Year	Acre.	Week ending	Week ending	Highest	Lowest	Mean of the	Weekly Mean of	In	In
	BOROUGHS.	ACIOS.	1871.*	(1871.)	29th April	29th April	the	the	Daily	the Daily	Inches.	Centi- metres.
					1871.	1871.	Week.	Week.	Mean Values.	Mean Values.		
ı	Total of 20 Towns)											
l	in the United Kingdom -	213,281	7,336,961	34.4	5331	3573	66.2	28:0	48.2	9.00	0.76	1.93
l	London	77,997	3,258,469	41.8	2250	1469	64*9	42.7	50.7	10:39	0.80	2.03
ı	PORTSMOUTH	9,513	125,464	13.5	100	39:	64.5	38.2	51.3	10.72	0.25	1.32
l	Norwich	7,472	81.787	10.9	55	33	61.5	34.5	48.6	9.22	1.01	2.57
l	BRISTOL	4,688	173,364	37.0	132	77				_		
ı	WOLVERHAMPTON -	3,387	74,438	22.0	43	30	62.5	39*8	48.6	9.22	0.87	2.21
ı	BIRMINGHAM	7.831	378,574	48.3	242	159	61.0	41.0	49.3	9.61	0.85	2.16
ŀ	LEICESTER	3,200	101,367	31.7	75	37	66.2	39.0	49*9	9*94	0.66	1.68
ŀ	NOTTINGHAM	1,996	90,480	45.3	42	26	64.3	38.1	49'1	9*50	0.99	2.51
ı	LIVERPOOL	5,108	526,225	103.0	354	335	60*4	41 3	48.8	9.33	0.36	0.91
I	MANCHESTER	4,486	379,140	84.2	262	192	62°0	41.2	47.9	8.83	1.10	2.79
ı	SALFORD	5,172	123,851	23.9	93	75	60.5	39.3	48.0	_ 8 <sup>3</sup> 89	0.94	2.39
ŀ	BRADFORD	6,590	148,030	22.5	81	70	61.0	40.0	48.8	9.33	0.38	0.97
ļ	LEEDS	21,572	266,108	12.3	399 .	159	60.0	41.0	48.1	8*94	0.95	2.41
l	SHEFFIELD	22,830	255,247	11.5	198	111	62.0	40:2	48°6	9.55	0.65	1.65
ı	HULL	3,562	135,195	38.0	96	49	61.0	28.0	46.2	8.02	0.20	1.52
	SUNDERLAND	3,306	103,037	31.2	79	. 32			:	<u></u>	_	
	NEWCASTLE-ON-TYNE	5,336	136,293	25.5	91	80	57.0	38.0	45°6	7.55	0.26	1.42
	EDINBURGH	4,427	179,944	40.6	150	111	53.7	30.0	42.8	6.00	0-70	1.78
	GLASGOW	5,063	477,627	94°3	413	332	58.4	36.0	44.6	7.00	1.35	3.43
	DUBLIN	9,745	322,321	33.1	176	157	62*1	31*8	50.8	10.44	0.57	1.45

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d ultimo, will probably be available before the middle of the year, and will then be substituted for these estimates.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Week ending Saturday the 29th day of April 1871.

		chains of	- au	0210 201	ar day	. 02 4	-P							
	ANNUAL				Th	e DEA	гнs reg	istered	in the	Week i	nclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Institutions,
Total of 17 Towns -	24	2973	671	495	357	74	92	13	82	94	31	74	157	514
LONDON	24	1469	311	253	261	12	30	7	45	37	14	29	77	300
PORTSMOUTH	16	39	7	6	-	-	.1	_	_	_	· · -	2	4	5
Norwich	21	33	3	18	-	-	-		1		1		2 .	5
BRISTOL	23	77	11	20			9	1	1	3	-	4	5	20
WOLVERHAMPTON	21	30	8	4	-		-	, ton	-	2		240	200	2
BIRMINGHAM	220	159	43	19		15	5	3	5	tree .	2	6	10	18
LEICESTER	19	37	10	. 7	<del></del>	-	3	-	-	4	-	-	3	7
NOTTINGHAM	15	26	6	7	/-	-	. 3		-	2	1	Ξ,	. 2	2
LIVERPOOL	33	335	76	48	74	9	14	1	11	20	3	12	18	66
MANCHESTER	26	192	50	30	2	. 18	3	~~	3	4	5	9	14	39
SALFORD	32	75	15	8	<u>.</u> 6 .	8	2	-	"	3	- 1	1 -	3	4
BRADFORD	25	70	18	11		-	3.	1	1	3		~	-	6
LEEDS	31	159	50	19	-	4	5	-	7	9	2	1	5	7
SHEFFIELD	23	111	20	19	-	.5	. 9	-	3	2	3	. 4	6	8
HULL	19	49	14	n	-	3	2	-	-	1		1	2	9
SUNDERLAND	16	32	7.	. 5	2	1 - 1	3	-	1	-^	s , =	3	. 2	1
NEWCASTLE-ON-TYNE -	31	80	22	10	12				4 -	. 4	- 1	2	4	15
DUBLIN	25	157	34	39	-	-	4	-	4	13	3	5	6 ,	43

TABLE 5 .- DEATHS in LONDON Registered in the SEVENTEENTH Week of the Year 1871.

TABLE 5.—I	JEATHS	III I	MON	DON	ne	Riz	tere	a 11	the Seventeenth we	ek or	tne 1	ear	18	5/1.			
	eek 31-70.	S	In t	he V	Veek April	endi 29,	ng 871.			eek 11-70.	Sa	In t	he V	Veek April	endi l 29, 1	ng 1871.	
	s of th th W ars 186		Dea	ths o	f Per	sons	of			s of th th W urs 186		Dea	ths o	f Per	sons	of	
CAUSES OF DEATH.	Averages of the Seventeenth Week the 10 years 1861-70.	ALL AGES.	Un	der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages of the Seventeenth Week the 10 years 1861-70	ALL AGES.	Une		r 40.	r 60.	r 80.	and
	Sev in the	Mean		.,	under 40.	under	and under	Years supported.		Sev in the	Mean			under	under	and under	ars a
Mean Temperature -	50.2	Tem.	0-5.	5-20.	20 and	40 and	60 and	ay ve	Mean Temperature	50°2	Tem. 50.7	0-5.	5-20.	20 and	40 and	60 and	80 Years upwards.
ALL CAUSES	1346.7	1469†		_	248	226	_		9. Stricture of Intestines -	1.0	_		1			:	_
SPECIFIED CAUSES	1337.8	1459		158	248	225	212		10. Fistula	5.3	5	2			2	1	-
I. ZYMOTIC DISEASES. ORDER 1.									13. Hepatitis	4'0 3'3 16'6	2 4 18	2	1 1 1	- 2	1 1 9	1 7	-
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	16.0 32.8 89.3	261 12 30	106 12 19	74	67	13	1 -	H	16. Spleen Disease, &c ORDER 5.	7	-					-	
4. Diphtheria 5. Quinsy 6. Croup	9·2 1·1 14·7	7.	3	8 2	2 1 -	1 -	11111		1. Nephritis	1.2	1 1 13	-	1	- 5	- 5	1 2	H
7. Whooping-cough 8. Typhus	66.0	45 10 13	8 45 3	1	210	5	-	۱	4. Diabetes	2.3	5 2	-	î -	1	1 -	2 2 1	
Simple continued Fever -) 9. Erysipelas 10. Puerperal Fever (Metria)	6.6	114	5	5	3 3 1 2	1	1 2 1 2	2	6. Cystitis 7. Kidney Disease, &c	9.2	10	ī		1	2		
11. Carbuncle	1.6 .4	1 -	=		- -	1.	-	E	ORDER 6. 1. Ovarian Dropsy 2. Uterus Disease, &c	4.5	5	-	-	2	2	ī	-
14. Diarrhœa – – – – – – – – – – – – – – – – – – –	1.7	14	8 -	î 	ī	3 -	1	E	ORDER 7.  1. Synovitis (Arthritis) -	-1	1	ī	- 2	-	- 2	1	H
16. Ague	1°1 7°6 °1	1 14		. 4	3	1 4	- 8		2. Joint Disease, &c ORDER 8.	5.2	6						
ORDER 2.	6.4	4	4			_	_	H	1. Phlegmon	1.0 5.9 5.9	1.	-	1 1 1	-	1 -	-	
2. Stricture of Urethra 3. Hydrophobia 4. Glanders	1.5	1 -	-	-	=	=	1	H	IV. DEVELOPMENTAL DISEASES.								
ORDER 3.	1	-			1		_		ORDER 1.	21.1	15	15	_	_	_		
2. Want of Breast-milk - 3. Purpura and Scurvy - 4. Alco- (a Del. Tremens -	6.8 1.4 1.4	4 3 4	1 -	Ę	1 2	1 2	-	B	2. Cyanosis	1.7 .7 1.5	.3	3	- 1 -	1 1 1	-	-	-
ORDER 4.	1.4				-		_		5. Teething ORDER 2.	18.8	12	12				-	
2. Worms, &c I. CONSTITUTIONAL DIS.	2:4	ī		=	ī	_	-		1. Paramenia 2. Childbirth (see Puerperal)	6.3	6	-		6	-	-	į
ORDER 1.  1. Gout	2.5	4				2	9		Fever) CORDER 3.	51.0	38	_		_		17	21
2. Dropsy	12·4 26·3	9 31	1	3	7	1 16	2 7	1	1. Old Age ORDER 4.	53.6	48	43		_	2	3	
5. Mortification ORDER 2.	4.6	3			_		2	1	1. Atrophy and Debility - V. VIOLENT DEATHS, &c.						-		
1. Serofula	8.5 18.1 180.6	9 16 158	7 15 12	15	1 1 76	40	15	B	ORDER 1. (ACCIDENT OF NEGLIGENCE.)								
4. Hydrocephalus III. LOCAL DISEASES.	34.9	35	33	2	-	-	-		1. Fractures and Contusions 2. Wounds	15:5 6 5:4	10 2 2	- 1	2 2 1	2 -	1 -	3 -	2 -
ORDER 1. 1. Cephalitis	15.6	16	8 5	2	4	1	1	Ļ	4. Poison	6.0 6.5	- 2 6	1 5	-	ī	- 1	-	
3. Paralysis – – – 4. Insanity – – – 5. Chorea – – – –	32.6 28.7 2.5	28 24 2		1 -	3 -	6 4 -	13 15 1	1 2 1	7. Otherwise	2.6			-	_		-	
6. Epilepsy – – – 7. Convulsions – – 8. Brain Disease, &c. – –	6 8 56 3	4 64	64	1 1 1	3	1		i	(HOMICIDE.)  1. Murder and Manslaughter	1.9	1		_	_		1	
ORDER 2.	2.3	25 1	6	5.	5	4	1	_	ORDER 4.				~				
3. Heart Disease, &c	2°3 1°7 57°6	64	-	5	1 12	3 25	22	-	(SUICIDE.)  1. Wounds {Gunshot - Cut, Stab -	1.7	1 2	-	-	ī	1	-	Ŀ
ORDER 3.  1. Laryngitis  2. Bronchitis  3. Pleurisy	8.6	5 133	4 49	3	7	1 21	45	- 8	2. Poison 3. Drowning 4. Hanging	.8 1.9			-	-	-	=	E
5. Asthma	3°7 79°2 8°9	3 72 7	48	3	5 -	1 8 8	8 8 9 2	-	5. Otherwise ORDER 5.	-7	2		-	_	-	1	-
6. Lung Disease, &c ORDER 4. 1. Gastritis	12.9	15	14	-	1	8 7		1	(EXECUTION.)  1. Hanging		-	-	-	-	-	-	-
2. Enteritis 3. Peritonitis	1°8 6°6 5°3	2 7 7	4 2	1	2	3	1		Violent Deaths (not classed)	•4	1	1	-	-	-	-	-
5. Ulceration of Intestines – 6. Hernid – 7. Ileus	2°1 2°6 2°5	6 4 3	-	- 1 1 7	1	3 -	1 2		Sudden Deaths (Cause un-	2.3	-	-	-		-	-	-
8. Intussusception	3.0	4 4	1 -	1	-	2	ī	1 -	Causes not specified or ill-	6.6	10†	7	-	-	1	-	

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

# 142 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

	1		1	_									nng		11 66.	K CH	ning
		during	during				The :	DEATI	is reg	istere	d in t	he We	ek in	elude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total Births du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough,	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	2,803,989	2250	1469	311	253	261	12	30	7	45	10	13	14	14	29	77	303
West Districts North Districts	458,125 618,210 383,321 571,158 773,175	350 480 230 478 712	218 892 135 289 440	63 73 26 63 86	40 71 28 53 61	11 107 15 33 95	2 - 2 2 6	3 : 8 1 3 15	1 1 1 1 2	14 12 3 8 8	5 1 2 2	2 5 1 2	1 3 - 4 6	5 4 1 3	4 5 4 5 11	15 21 10 10 21	36 116 30 45 76
WEST DISTRICTS.  St. Mary Paddington WH	39015 36769 51910 18198 5415 5415 19104 15539 21684 19999 21885 55113 37483 30730 10703 13966 10607 17423	49 19 70 14 28 16 17 13 18 5 10 29 32 8 2 3 3	30 12 31 6 1 8 8 11 20 7 1 5 26 17 6 7 6	11 10 1 -3 3 2 6 2 1 1 8 6 5	5 4 4 4 1 6 6 1 4 1 3 1	2111111111221		1		1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	trit tittli tre titreit			1 1 1 2 1 1 1	211	140111011111111111	6665
NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square Rectory Marylebone WH - St. Mary Marylebone B. L. John Marylebone	299.52 15090 26692 22493 34913 32540 19106 34927 29371 27808 39099 44317 75442 75443 4265 31481 16458	25 5 14 14 12 11 18 35 16 15 50 7 7 7 12 35 19	14 4 16 10 8 16 31 13 11 20 21 16 26 4 1 1 4 5 4 6	2 2 3 6 3 1 8 2 5 7 6 3 8 15 - 14 2	-8-14-2-13-297-98-2-391	2 2 28 2 1 4 11 1 18 9 -4 22 2	mice majora and	1		12 1 1 1 1 1 3 - 1 - 1	131111111111111111111111111111111111111	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-4-81 4 - 1918 - 24 - 1 - 1	5 7 1 2 28 - 3 5 - 13 2 20 8 - - - - - - - - - - - - -
CENTRAL DISTRICTS.  St. George Bloomsbury - St. Giles South WH	17892 19483 17201 11618 11071 10346 15207 19903 12903 12912 19152 17250 13079 16290 11504 17860 14778 12913 20990 11504 17860 1478 12913 1775 1875 1875 1875 1875 1875 1875 1875	8 11 16 6 2 9 5 18 18 12 23 13 7 7 11 7 10 8 13 8 3 13 13 7	3 10 6 5 3 5 9 3 8 - 6 4 7 10 3 5 3 13 4 4 5 5 5 6 6 2 2 2 1	11 2 31 11 2 13 111 3112 1 1 1	131 1 - 122 13 - 21	11 11 12 172 111 111	112 11111111111111111111111111111111111		1	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					111114	111211111111111111111111111111111111111	61 2 2 5 1 1 1 7 7 1 1 1 7 1 1 7 1 1 1 7 1 1 1 7 1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely, W—Workhouse; W—Hospital; W—Lunatic Asylum; W—A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 143

ever, Diphtheria, Whooping-cough, Fever, Diarrhea, Violence, &c., registered in each Sub-district sturday, 29th April 1871.

		during	during				The I	)EATH	s regi	stered	in th	e Wee	k incl	lude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	188	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever,	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  folywell Shoreditch	17313 19188 26516 25777 23260 17310	5 17 84 22 18 20	6 12 12 9 10 10	1 4 3 4 1 4	1 4 1 2 5	- 4 2 2 - 1	-	2	-	2	1	11111		1111111	1 - 1	1	3
ackney-road	26298 31789 25528 21486	28 27 18 11	10 20 16 9	2 3 2 3	1 4 4 1	1 7 3	1111		1	1 -	ī		-	1111	1111		4 -
rtillery Whitechapel pitallicids	6557 15700 15392 12122 8062 11166 9971	2 4 18 5 4 6 5	2 7 9 1 15 3 5	1 3 - 1 - 2	1 1 -	1				111111	1 1 1 1 1 1 1	1111111	1 - 1	1	f F 1 1 00 1 1	2 -	10
t. Mary St. George East t. Paul St. George East t. John St. George East W	18181 21015 9695	12 18 8	6 10 15	1 4 2	2 1 3	- 2	-	111	-		-	1	-	111		ī	- 9
hadwell W	12537 16874 27161	5 10 23	1 6 12	1 12 1	- 3	- 1	- 1	-	=	1	=	-	1	- ī	-	1 -	3 -
lile End Old Town West Lile End Old Town East WwH -	33747 39317	29 46	13 24	4 5	3 6	1 2	-	1 -	-	3	-	ī	-	=	ī	- 1	3
ow WwHLt	35667 43529	31 32	31 15	8	2	3	-	-	-	1 -		-	-	ī	-	3 -	6 3
hristchurch Southwark W - L. Saviour Southwark H	17069 19101 19652 16668 19190 22675 44463 15082	12 10 24 10 9 22 46 13	10 9 12 12 7 11 23 14	1 2 1 2 9 -	3 1 3 1 4 2	3 3 4 - 4 5 5	1 1 1	1 2	11111111	1111111		1111111	1 / 1   1   1   1		111-2	1 - 2	2 - 4 - 5 4
t. Olave Southwark H	7663 11893 16696 16505 25154 24502	2 10 11 13 48 20	9 6 12 7 17 3	1 2 5 1	1 1 8 -	1 3 1 1	1	1	1	1	111111	11111	111111	111111	1	3 - 1 - 1	7 2 - 2
"aterioo-road ist H -	15269 18640 19839 29542 30785 20440 20067 7462	7 18 13 30 28 15 23 11	6 3 7 9 18 10 40 5	3 - 2 1 3 3 3 2 2	1 - 2 3 1 3	2 2 2 2 2 2 2 - 20	1	1	1711111	- - - 1 1	11111111	1	111	1111111	11111111	2	2 - 19
apham HL	20894 19600 13346 6481 10082	13 46 12 7 4	19 41 7 1 5	5 4 - 3	8 4 8 -	7 17 - - 2		2 2 -	1	1	11111	11111	11111	11111	- 1	1 2 -	- 6 5 
ulwich	1723 21297 28135 20333	19 24 22	- 8 20 6	- 5 3	3 1 1	5 2	- 1	- 2	-	-	-	- 1	- 1		- 1	- 2	3 -
Paul Deptford	37834 8139 21696 18306	49 4 16 14	16 2 7 13	3 1 2 2	2 1 2 4	8 -	1	1		1	1 -	1111			1	1 - 1	- 10
ltham	3009 11003 7372 10595	3 9 12	- 5 2 7	1 5	2 1				=	2	-		1111	1111		1 1	10
nariton H	9276 22919 18776 11332 13170	4 16 14 10 16	6 7 6 4 6	4 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1					7 1 1 1	- 1	111	11111	- 1	1 1 1 -	4 - 1 -

e following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - , , Tottenham-court sub-district.

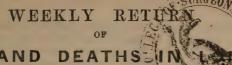
London City - , , , Halender Sub-district.

Do. do. - , , , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.
London City ,, Mile End Old Town Eastern sub-dist. and
Bow sub-district,
Stepney - ,, ,, Bow sub-district,

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROXAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 29th April, 1871. [Under the Superintendence of the Astronomer Bonal.]

									A	1eteor	ologi	cal	Obs	erv	ations.					
					auozO		:::	:		<b>;</b> :	:	56		nean	dry dry nean five laily	sults the well	rage erva-	d as	the cf.	k to assed ed to
11	RAIN.	Collected	in a Gauge	whose		Inches	000,	0.0	0.11	0.14	Sum 08.0	25		ve the r	The observations are taken at 9h. A.M.; readings of the barometer, the dry these times, are converted into mean d by James Glaisher, F.R.S., from free f. Tyrass, part 1, 1885. The mean daily have mean daily values of the dry and	The results include the P.M., as well	The average ical observa- December 31	nd-"lou	ir-register the dept ed under of Lieut	the wee
ı			Robinson's.	Amount of	Movement of Air each day.	Miles.	126	223	323	858 266	Sum 1848	24		feet abc	e barome converte sher, F.R. 1848. Th	edition. column ? ; and 9h.	to each.  errometring 1863	igher," a e to be u	use or se ship, at register rmission	nning of n the 25t the 28th
ı		ters.		are foot.	Mean of 24 Obs.	lbs.	0.0	0.1	0.3	0.5	:	23		be 159	of the of the see of Clais part 1,	ourth ited in sh. P.M.	rmomet applied the the	ead "h	oy the olice Solice Sol	ne begin
ı		emome		s on sdns	Least.	lbs.	0.0	0.0	0.0	0.0	:	22.		red to	adings se tin y James, mean	bles, F exhibi oon; 3	m ther being a from	servat	anned on " F strume e ship	at the by 9h.
ı	WIND,	from A	s.	Pressure on square foot.	Great- est.	lbs.	0.0	1.2	es es	6.3	:	21		onside	r. The re at the uced b	cal Ta mbers	etions ctions claisher in the	ind the gical ok ight.	Scorpi Scorpi nese in ard th	an Pol 29.55 in 91 in. 71 in.
		As deduced from Anemometers	Osler's.	Direction.	P.M.	WN & WNW		WSW. &	W. &.	WSW. & SW. SW.	ariable.	20	NOTES	meter is c	neans of r, observed ctions dedicate at 31.—See	Hygrometri or the nu	num and n roper corre ed by Mr. G	borne in m meteorologi tht to midu	Thames is e of the "dings of the story on bo	Metropolit sed, from sased to 29 sased to 29 9.76 in, at
				General Direction.	A.M.	W&W&W	W. & E. E. & SE.	E.,SE.,&	WSW&W	W. by S.	Vari	19		The height of the cistern of the barometer is considered to be 159 feet above the mean of the sec. The readings of the harometer are considered to be connected with those	of the Royal Society's flint glass standard barometer. The observations are taken at 9h. A.M., noon; Sh. Fu. 3, and 9h. F.M. The means of the readings of the barometer, the dry the armometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Glaisher, F.R.S., from five agrees observations ending 1845, Decomber 31.—28e Phil. Trans., part, 1848. The mean daily wanter to the converted of the property of the property of the privary of the property of the privary.	were plant among the distributed by Glaisher's Hygrometrical Tables, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column?, include the observations of the dry thermometer, read at 91. A.M.; noon; 81. P.M.; and 91. P.M., as well	as the results deduced from the maximum and uninnum intermonetely, as defined as the self-registering thermometers, the proper corrections being applied to each, the self-registering thermometers, the proper corrections being applied to each, then performed the proper corrections being applied to each, the property the performance of the first self-deformance of the first that deformance of the first performance of th	"In reading the 17th column twell be borne in mind that his read "higher," and "Gover," than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight.	The temperature of the water of the Thames is ascertained by the use of sen-registering thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are resistered under the sunerintendence of the resident inspector on board the ship, by permission of LieutCol.	Henderson, R.B., C.B., Commissioner of Mcfropolitan Police.  The reading of the baronacer decreased, from 22.53 in, at the beginning of the week to 29.49 in, by 10h. A.m. on the 23d; increased to 29.74 in, by 9h. A.m. on the 25th; decreased to 29.60 in, by 8h. P.M. on the 27th; increased to 29.74 in, by 9h. A.M. on the 28th; decreased to 29.84 in, by noon on the 28th; and was 29.76 in, at the end of the week.
	Degree	midity,	Satura-	being renre-		70	88	84	22	888	85	18		cistern o readin	d 9h. P.	ers by cerature	ted from hermom ir is tha	h columnie result	of the wa ended fr to surfact the resi	3. Comn e barom on the f. on the
Owner one Supervision of the Assistance Andreas			perature of	mean tem-	the same day on an average of 50 years.*	٠ ٥ ٥	. i. io	+ 4.7	+ 3.3	+ 3.6	+ 2.1	17		The height of the	P.M.; and these by the servations of	thermomed daily tem	gistering tree of the a	*In reading the 17th than the average. Tapplying to the civil	operature of the state of the s	n, R.E., C.J ding of th yy 10h. A.M v. by 3h. F.J y noon on 1
Oronic	DIFFERENCE	Point			Least.	000	0.0	0.4	1.5	0.0	8.0	16		he hei	he Roy n; 3h rmome ly valu rs' obs	bulb mean ervatio	the resself-re	In reaction the sollying 1	he ten rmome ut 2 fe	nderso he rea 49 in. k 29 60 ir 34 in. b
700 200	DIF	Between Dew	remperature and	Air Temperature	Great-	1001	10.8	11.9	17.1	15.3	12.7	15		Torrel		wet for obs				
foce of		Betwe	91	Air	daily value.	0.9	9 01 00	4.1	0.2	9.5	4.5	14			il showers of few drops of		rain fell	fternoon	Showers of 6h. P.M. till	ble, and
internation			the Thames at	self-registering	Highest, Lowest.	000	49.8	9.09	8.09	51.0	50.4	13			ver:		of	and again in the afternoon, y. Clouds variable.	3h. P.M. Sh y from 6h.	the day was very variable, and fell. Thunder was heard about
adne a					Highest.	0.00	523.1	53.1	53.4	53.6	53.4	12	PHERF		fine. Sat times.	asionally	ie. A s' aidnight.	l again Clouds v	ereast after 3b. P.M. continuously from	v was v
maer on	TERS.	Lowest		a self- register-	ing Minimum Thermo- meter.	400	35.4	37.5	40.4	39.4	39.0	17	AND ATMOSPHERE.		but generally fine. Se	in fell occ	Generally fir just before n	morning, and A fine day.	overcast d contin	g the da
1	THERMOMETERS.	Highest in	shown by	Thermo-	blackened bulb in vacuo, placed on the Grass.	000	104.5	114:1	114.1	109.9	103.3	10	SKY AND A			A littl	Light clouds prevalent. Generally fine. A shower in the afternoon, and again just before midnight.		in the morning; overcast after the morning, and continuoual	loud during t
۱	INGS OF	Dew	Point.	Mean	daily value.	0.4	42.8	47.9	44.4	47.4	46.2	6	7/2		variable day,	Generally cloudy.	ds previoon, an	I in the early ed by thunder.	in the	The amount of cloud equent heavy showers 1. 15m. P.M.
۱	READIN			Mean	daily value.	0.5		52.6	51.4	52.0	50.7	00			A very v rain fell.  Overcast	nerally	i i i i Light clou the afterr	Rain fell accompanie	Very fine i rain fell in midnight.	The amou frequent hea 4h. 15m. P.M.
١				Range	in day.	0.01	8.0	21.3	19.5	18.2	16.5	-			rain	5		8		744
ı		-	,		Low-	0,97	42.7	42.4	45.0	45.0	44.7	9		,	· d	nsion.	generally	on dur- ng.	in the morning	ctricity,
١		1		_	est.	000	58.3	64.0	64.5	63.2	61.2	5	CILX		вв вћоw	iable ter	W8.8 g	ık tensi ıd eveni	the r	tive ele ion, du s falling
	BARO-	Mean	reading	rected and re-	duced to 32 degr. Fahren heit).	in.	Apogee, 29.531 29.796 Greatest 29.891 Dec. N.	29.780	29.618	29.651	29.663	4	ELECTRICITY		No electricity was shown.	Positive, with variable tension.	positive	with we	itive	and nega rate tens rain wa
	MOON.		Director	ringses of	Moon.				First		:	8	E		No elec	Positive,	Weak p	Positive, with weak tension ing the afternoon and evening.	Weak pos and at night.	Positive and negative electricity, with moderate ten-son during the times when rain was falling.
				DAY.		-		97 A	. 27	29	<u> </u>	nmns	-		23	22	56	27 j	28	83
			1871.	MONTH AND DAY.		APRIL	Monday	WEDNESDAY	THURSDAY	FRIDAY.	MEANS	No. of Columns.	DATE.	APRIL.	SUNDAY .	TUESDAY .	WEDNESDAT	THURSDAY.	FRIDAT .	SATURDAY.
1	-	_	_									1	1	1	, E				100	02



AND IN NINETEEN OTHER UNITED KINCOQ

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 18. 1871. Vol. XXXII. Week ending Saturday, May 6. [Price 1d.

General Register Office, Somerset House, 8th May 1871.

During the week ending Saturday the 6th instant, 5307 births and 3554 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week was at the rate of 25

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:-London 24 per 1000; Portsmouth 20, Norwich 17, Bristol 19, Wolverhampton 17, Birmingham 21, Leicester 22, Nottingham 21, Liverpool 34, Manchester 24, Salford 24, Bradford 31, Leeds 22, Sheffield 25, Hull 19, Sunderland 26, and Newcastle-upon-Tyne 35. The fatal cases of small-pox in these towns, which in the two previous weeks had been 367 and 357, were last week 370; of these, 288 occurred in London, 55 in Liverpool, 16 in Newcastle-upon-Tyne, 4 in Sunderland, 3 in Manchester, 2 in Salford, and one each in Portsmouth and Leicester. The annual death-rate from small-pox last week was equal to 5 per 1000 in both London and Liverpool, and to 6 in Newcastle.

In Southampton 22 deaths from small-pox were returned last week, a decline of 5 upon the previous week; in the past five weeks of the current quarter the fatal cases of this disease alone have averaged 20 per week, showing an annual death-rate equal to 19 per 1000 of the persons estimated to be living in the district.

In Edinburgh the annual rate of mortality from all causes last week was 34 per

1000 persons living, in Glasgow 33 per 1000, and in Dublin 20.

Dr. Zuelzer, now fortunately returned from the war, resumes the returns for Berlin; the births were 623, the deaths 523, including 98 from small-pox, in the week ending 4th May; the mortality in a population of about 800,000 was at the annual rate of 34 per 1000 from all causes, including 6 per 1000 from small-pox.

In Brussels 150 deaths occurred in the week ending 29th ultimo, and the annual death-rate was 39 per 1000; these deaths include 40 from small-pox, an increase

of 3 upon those in the preceding week.

In the City of New York 544 deaths were registered in the week ending

15th ultimo, and the equivalent annual rate of mortality was 30 per 1000.

In Bombay the deaths registered during the week ending the 11th ultimo were 337, and the mortality was at the annual rate of 22 per 1000. In Madras 225 deaths were registered in the week ending 24th March, showing an annual deathrate equal to 27 per 1000 of the population. Calcutta at present sends no return.

In London 2251 births and 1522 deaths were registered last week. After making due allowance for increase of population, the births were 50 below, while the deaths exceeded by 47, the average numbers in the corresponding week

of the last ten years.

Zymotic diseases caused 447 deaths last week, including 288 from small-pox, 17 from measles, 29 from scarlet fever, 4 from diphtheria, 36 from whooping-cough, 34 from different forms of fever (of which 7 were certified as typhus, 14 as enteric or typhoid, and 13 as simple continued fever), and 13 from diarrhoea; thus to the seven principal diseases of this class 421 deaths were referred last week, against 412 and 406 in the two preceding weeks.

The fatal cases of small-pox in London, which in the three previous weeks had been 265, 276, and 261, rose last week to 288, the highest weekly number that has

[18.]

been touched during the present epidemic, and almost three times as high as the largest number returned in London in any week of the several epidemics, or outbreaks, that occurred during the 31 years 1840-70. In nine permanent and temporary hospitals for this disease 94 deaths were recorded last week, of which 36, 35, and 8 occurred respectively in the institutions at Hampstead, Stockwell, and Homerton. After distributing these deaths among their proper districts, it appears that 30 deaths from small-pox last week belonged to the West group of Districts, 81 to the North, 18 to the Central, 51 to the East, and 108 to the South. The fatal cases declined last week in the Central Districts, but increased in each of the other groups. The highest death-rate from small-pox was shown in Somers Town, Bethnal Green, Mile End Old Town, Southwark, Newington, Clapham, and Battersea; in the latter sub-district, of 31 deaths 14 were referred to small-pox.

To different forms of violence 51 deaths were referred; of these 35 were accidental, including 15 by fractures and contusions, 2 from burns and scalds, 3 from drowning, 10 from suffocation, and 3 from poison. Two of the deaths from fractures and contusions were caused by horses or vehicles in the streets: a seaman, aged 28 years, died at the Royal Free Hospital on 29th ultimo, from the fracture of a false aneurism of the aorta by a blow from a van; and the son of a general dealer, aged 7 years, died in the Charing Cross Hospital on 25th ultimo, from injuries through being run over by a cart while at play in Webber Street, Lambeth. No less than

12 deaths last week were cases of suicide.

In the large Public Institutions of the Metropolis 326 deaths were recorded last week, showing that of each 100 deaths 21 occurred in these Institutions, of which

8 were registered in Workhouses, and 12 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.88 in.; the highest reading was 30.13 in. on Saturday night, and the lowest 29.43 in. at the beginning of the week. The mean temperature of the air was 49°.7, or 1°.0 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 69° 9 on Saturday; the lowest night temperature 36° 1 on Friday; the entire range of temperature in the week was, therefore, 33°8. The highest temperature in the sun was 130° · 7 on Saturday. The mean temperature was below the average on each day of the week, except Wednesday and Saturday; on Monday the mean was 47° 4, or 2° 4 below the average, while on Saturday it was 56° 5, and showed an excess of 4° 8. The difference between the mean dewpoint temperature and air temperature averaged 8°.5. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 52° 7 last week. The mean degree of humidity of the air was 74, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air in the week averaged 11 miles per hour. Rain fell to the amount of '20 of an inch during the week, of which 11 was measured on Sunday, and '09 on Wednesday evening. The mean temperature of the week in the other large English towns furnishing returns, ranged from 45° 0 in Newcastle to 50° 8 in Portsmouth; the lowest recorded night temperature was 30° 0 in Hull; and the highest day temperature in the shade 70°.7 in Leicester. Rain was measured last week in each of these towns, the amounts varying from .05 in Leicester, to .57 in Norwich.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 9°·8; the highest day temperature in the shade was 21°·1, the lowest night temperature 2°·3, the highest temperature in the sun was 54°·8. The mean temperature of the corresponding week in 50 years averaged 10°·4, or 0°·6 above the temperature of last week. The wind blew at the rate of 17 kilometres

an hour; and the rain-fall measured '51 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 233,242 cubic metres, and at Barking 245,191 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the Eighteenth Week of Ten previous Years.

Total Births  Males  Females .	2008 951 1057	1862 1971 987 984	1863 1975 1002 973	1864 1879 967 912	2074 1006 1068	1866 2002 1003 999	1867  2381 1193 1188	2331 1198 1138	1869 2025 1063 962	1870 2277 1148 1129	Average of 10 Weeks.  2092.3 1051.8 1040.5	2251 1144 1107
Total Deaths Males Females	1261	1314	1374	1317	1236	1545	1237	1392	1421	1314	1341·1	1522
	652	659	705	651	627	782	642	696	717	680	681·1	787
	609	655	669	.666	609	763	595	696	704	634	660·0	735

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-7 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	Feb. 11.	Feb. 18.	Feb25.	Mar.	Mar. 11.	Mar. 18.	Mar. 25.	Apr.	Apr.	Apr. 15.	Apr. 22.	Apr. 29.	May 6.
TOTAL Deaths - /	1749	1625	1633	1591	1601	1576	1665	1564	1493	1722	1578	1469	1522
Deaths under 5 years of age - Deaths 5-20	640 166	642 142	627 163	643 174	652 162	616 150	643 151	613 139	573 157	670 174	583 167	581 159	568 183
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	260 281 333 69	247 265 280 . 49	246 263 267 67	237 259 215 63	244 242 238 63	259 251 256 44	279 276 264 52	251 241 271 49	262 237 197 67	291 262 249 76	277 244 258 49	248 226 212 41	276 253 193 49
Deaths from Smallpox, Measles, Scarlet Fever, Diphtheria, Whooping-cough, Typhus fever	211 9 46 10 51	218 11 48 8 58 11	227 15 47 2 54 12	213 15 53 11 53 14	194 14 54 9 67 5	185 13 33 3 55 10	205 10 36 6 48 12	192 13 33 6 41 7	214 15 37 6 53 8	265 6 40 4 66 8	276 13 27 4 44 11	261 12 30 7 45	288 17 29 4 36 7
", Enteric (or Ty-) phoid) fever - ) ", Simple Conta fever ", Diarrhoa - ", Simple Cholera -	14 16 14	15 9 14	15 7 14 1	17 5 13	15 7 15	16 17 9	14 "6 9	13 11 14	11 10 7	9 6	15 7 15	13 14 14	14 13 13
, Phthisis Bronchitis Pneumonia - Heart Disease -	175 223 83 75	166 194 66 89	138 177 75 94	149 174 92 63	160 176 89 59	178 209 77 67	205 224 94 79	162 193 72 69	181 149 67 81	182 189 84 66	171 145 80 70	158 133 72 64	183 123 58 66
Mean Temperature of the Air	41.6	42.7	43.8	45.7	46.3	41.7	47.1	43.8	43.1	48.3	50.0	50.7	49.7
Mean Temperature of the Water of the Thames -	40.1	40.5	42.9	43.8	45.2	45.2	44.4	47.5	45.7	47.0	50.8	51.9	52· <b>7</b>
Humidity of the Air	82	87	81	79	78	81	82	75	76	81	89	.85	74
Rain-fall in inches = = =	0.72	0.02	0.08	0.11	0.47	0.28	0.02	0.03	0.01	0.36	1.75	0.80	0.50

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.; —W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Director, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 6th day of May 1871, in the following large Towns.

		oth day	or Blay	10/1, 111	me lollowii	ig large	JOWN	5.			
CITIES	Area	Estimated Population	Persons	Births registered	DEATHS registered		ATURE OF	THE AIR.	THE AIR.	RAIN	FAL
BOROUGHS.	in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 6th May 1871.	during the Week ending 6th May 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Cer met
Total of 20 Towns in the United Kingdom -	213,281	7,336,961	34.4	5307	3554	70.7	30.0	47.4	8.55	0.55	0.
LONDON	77,997	3,258,469	41.8	2251	1522	69.9	36'1	49.7	9*83	0.50	ó°
PORTSMOUTH	9,513	125,464	13.2	76	49	70.2	37.2	50.8	10.44	0.12	0.
NORWICH	7,472	81,787	10.9	43	- 26	61.0	35'0	46°1	7.83	0.57	10
BRISTOL	4,688	173,364	37.0	128	64	- 1		·			-
WOLVERHAMPTON -	3,387	74,438	22.0	44	_ 24	70.3	34.3	47.6	-8*66	0.09	9.
BIRMINGHAM	7,831	378,574	48.3	261	151			_	_		I.
LEICESTER	3,200	101,367	31.7	112	42	70.7	33.0	47.7	8.72	0.05	0.
NOTTINGHAM	1,996	90,480	45°3	62	36	64.6	34.2	47.1	8.39	0.08	0.
LIVERPOOL	5,108	526,225	103.0	352	346	61.6	40.7	48.5	9.16	0.27	0.
MANCHESTER	4,486	379,140	84.5	259	176			-	·	_	-
SALFORD	5,172	123,851	23.9	114	57	69°1	37.0	46.7	8.16	0.23	0.
BRADFORD	6,590	148,030	22.5	152	88	60°6	38.8	47.6	8.66	0.14	0::
LEEDS	21,572	266,108	12.3	183	113	59.0	39.0	46.7	8.16	0.07	0"
SHEFFIELD	22,830	255,247	11.2	212	122	67.0	34.5	47.3	8.20	0.13	0.
HULL	3,562	135,195	38.0	93	48	62.0	30.0	45*4	7.44	0.16	0.4
SUNDERLAND	3,306	103,037	31.2	84	51		_			_	-
NEWCASTLE-ON-TYNE	5,336	136,293	25.5	151	91	57.0	38.0	45.0	7.22	0.12	0.5
EDINBURGH	4,427	179,944	40.6	159	117	56.7	35.0	46'1	7.83	0.40	1.
GLASGOW	5,063	477,627	94.3	410	306	64.8	35.0	46.5	8.02	0.68	1.
DUBLIN	9,745	322,321	33.1	161	125	65.4	32.0	50.3	10.17	0.18	014
						1					

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d ultimo, will probable available before the middle of the year, and will then be substituted for these estimates.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Weending Saturday the 6th day of May 1871.

		ending i	out out		one dete	, 01 1	ray 1	0,1,						
	ANNUAL RATE				Th	e DEAT	Hs reg	istered	in the V	Week in	nelude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	To Public
Total of 17 Towns -	25	3006	643	496	370	88	77	5	73	81	33	100	181	5
LONDON	24	1522	302	242	288	17	29	4	36	34	13	51	98	39
PORTSMOUTH	20	49	9	10	1	-	2	-	1	4	-	2	5	1
Norwich	17	26	6	3	~	-	-	- 1	-	-	2	2	2	
BRISTOL	19	64	16	13	-	-	2	-	-	1	1	3	3	1
WOLVERHAMPTON .	- 17	- 24	3	6	-	1	1	-		1	-	- 3	4	
BIRMINGHAM	21	151	34	19		18	-	-	6	1	1	5	9	2
LEICESTER - * *	22	42	5	.7	T		2	-	-	2	7	1	. 8	
NOTTINGHAM	21	36	3	9	-	1	-		_	1		1	1	
LIVERPOOL	34	346	81	64	55	12	14	, m,	16	14	4	10	15	-6
MANCHESTER -	24	176	36	29	3 2	23	2		8	4	3	12	23	- 2
SALFORD	24 31	57 88	14 25	7	2	9	4	1	3	5	1	2	2 2	
							الأكا							
LEEDS	22	113	32	25		2	. 3	-	6	2	-	1	3	
SHEFFIELD	25 19	122 48	28	, 21 ·	_	2	12	-	_	4 2	2	3	4 2	.1
SUNDERLAND	26	51	14	. v	4	3	5	Ī		2		1	1	
NEWCASTLE-ON-TYNE -	35	91	27	13	16		-	-	1	1	5	2	4	1
DUBLIN	20	125	16	29			8	Mar	4	12	3	3	8	3

TABLE 5 .- DEATHS in LONDON Registered in the Eighteenth Week of the Year 1871.

	Averages of the Eighteenth Week	8	In that	he W	eek May	endi 6, 1	ng 871.			h of the Week	S	In thature	lay,	eek May	endir 6, 18	ıg 71.	
	es of th W ars 18		Deat	hs of the	Per	sons	of		CANGES OF DEAM	es of nth W ars 18		Deatl	hs of the	Per Age	sons	of	
CAUSES OF DEATH.	verag zhteei 10 ye	ALL AGES.		der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages of Eighteenth the 10 years 1	ALL AGES.	Und 20		r 40°	r 60.	r 80.	and
	A. Eig in the	Mean			l under 40.	d under	l under	Years pwards.		Eig in the	Mean	-	-	under l	under	l under	y Years a
Mean Temperature -	49.7	Tem. 49.7	0-6.	5-20.	20 and	40 and	60 and	Adn nha	. Mean Temperature -	49.7	Tem. 49.7	0-0.	5-20.	20 and	40 and	60 and	80 Ye
ALL CAUSES	1341.1	1522	568	183	276	253	193	49	9. Stricture of Intestines -	·6	- 1	-	-	-	-	-	H
SPECIFIED GAUSES	1326*5	1516	564	183	275	252	193	49	10. Fistula	6'4	4	-	-	1 -	4	-	
I. ZYMOTIC DISEASES. ORDER 1.	1.		•						13. Hepatitis	3.3 5.2 15.2	4 4 17	2	-	1 1	9	1 1 7	H
1. Small-pox	19·3 37·0	288	103 16	89	80	14	2		16. Spleen Disease, &c ORDER 5.	13.1	1	.1.	-	-	-	~	
3. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Ouinsy	42°2 7°7 1°2	29	16 3	10	2 -	1 -	-	-	1. Nephritis	*7	3	-	-	-	2	1	-
6. Croup 7. Whooping-cough	13.5	13 36	12 35	1		-	-		3. Bright's Disease (Nephria) 4. Diabetes	10.3	9 2	-	1 -	2	2	4	Î.
8. Typhus	48.5	7 14 13	2 3 4	1 6 4	3 3 3	2 2	-	-	5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	1:0 :7 6:7	1 1 9	-	- 1	1	5	- 2	1
9. Erysipelas O. Puerperal Fever (Metria)	4.4	6	1	-	1	2	2 -	-	ORDER 6.				-	_			
1. Carbuncle	*8 1°4	ī		-	-	=	-	1.7.	1. Ovarian Dropsy 2. Uterus Disease, &c	1.0	-		-	-	-		E
4. Diarrhea 5. Simple Cholera 6. Ague	14.9	13	11	-	′ 1 -	1 -	-	-	ORDER 7.  1. Synovitis (Arthritis) -	°4 5°4	- 9	- 1	- 6	1	-	-	
7. Remittent Fever 8. Rheumatism	7.2	- 5		3	- 1	-	1	-	2. Joint Disease, &c ORDER 8.	0 4	3		-		-		
9. Other Zymotic Diseases - ORDER 2.	*3	-	-	-	-	_			1. Phlegmon	1.9	5 1 1	- 1	1 -	2	-	1	-
1. Syphilis	8.1	1 -	3 -		1 -	1 -	1111		IV. DEVELOPMENTAL DISEASES.	10	1				_	-	
ORDER 3.	9	1	-		1	_	_		ORDER 1. 1. Premature Birth	21.2	98	28					
2. Want of Breast-milk -	6.3	5 5	5 1	2	2	- 7.7	-		2. Cyanosis	2:1	28 2 1	2	-	-	-	-	-
4. Alco-(a Del. Tremens - holism b Intemperance -	2·9 1·9	1 2	=	-	ī	1	-	E	4. Other Malformations - /5. Teething	18.2	2 21	2 21	_	_	_		7-
ORDER 4. 1. Thrush	2.4	4 1	4	-	-	-	-	-	ORDER 2.  1. Paramenia 2. Childbirth (see Puer-)	_	-	-	-	-	-	-	-
CONSTITUTIONAL DIS.				_					peral Fever) 5	5.7	3			3	-	_	
ORDER 1. 1. Gout	1.3	1 20	- 8	12	2	1 6	7	2	ORDER 3.	46.8	50	-	-	-	-	26	24
3. Cancer 4. Cancrum Oris (Noma) 5. Mortification	29·7 ·3 3·4	33 2 3	2 -	1 -	4	14	7 13 - 1	2 1 - 1	ORDER 4.  1. Atrophy and Debility -	59.7	50	44	1		1	4	-
ORDER 2.	10.8	16	10	4	1	1			V. VIOLENT DEATHS, &c. ORDER 1.								
2. Tabes Mesenterica	19°2 180°2 33°1	18 183 27	15 9 25	17 2	85	66	6	-	(ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	16.9	15	1	3	6	3	2	
III. LOCAL DISEASES.					-	-	-		2. Wounds 3. Burns and Scalds	4.3	1 2	2		-	1	=	
ORDER 1.  1. Cephalitis  2. Apoplexy	15°3 32°8	17 42	8 9	8	3	2 15	1 12	-	4. Poison	1·1 7·0 5·7	3 3 10	1 1 6		1	1 3	-	-
3. Paralysis	29.5	26		-	5	6	17	2	7. Otherwise	2.5	1	1	_	_		_	_
5. Chorea	7·2 53·4	5 51	51	ī	ī	3	-	-	Order 3. (Homicide.)								
8. Brain Disease, &c	16.7	19	3	2	6	2	5	ī	1. Murder and Manslaughter ORDER 4.	1.6	3	3			_	_	
1. Pericarditis	2°8 2°4	6	-	1	1 4	2	-		(SUICIDE.)	•8							-
8. Heart Disease, &c ORDER 3.	53.9	66	1	6	13	22	21	3	1. Wounds {Gunshot Cut, Stab -	1.2	4 4 8		-	1	3 1 1	2	-
2 Bronchitis 3. Pleurisy	7°4 121°6 2°4	123 · 1	2 48 -	-	5	28	30 1	12	8. Drowning	1.6 2.2 .7	1 -		7	1 -	-	- -	-
1. Laryngitis 2 Bronchitis 3. Pleurisy 4. Pneumonia	71°7 6°3	58 8 7	27 	7	7	8	8 4	1 - 1	ORDER 5.								
	13.2	4	-	1	1	3	-	1	(EXECUTION.) 1. Hanging	•2	-	-	-	E	_	E	_
1. Gastritis	6.2	8	1 2	2	2	1	2 1	-	Violent Deaths (not classed)	•1	1	1	_	-	-	-	1
5. Ulceration of Intestines -	3·0 3·1 2·9	7	1	-	3	2	1111	-	Sudden Deaths (Cause un-)	2.8	1	1	-	-	-	-	
6. Hernia 7. Ileus 8. Intussusception	2·9 3·7 ·6	5 -	2 -	-	1	1	i -	Ē	ascertained)	11.8	5	3	-	1	, 1	-	I
	1			1	1		1				1	1					

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

											_	auı	ing	tne	vv ee	k en	ung
		during	during				The	DEAT	нѕ ге	gistere	d in	the W	eek i	nelude	3		
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti- tutions.
LONDON	2,803,989	2251	1522	302	242	288	17	29	4	36	7	14	13	13	51	98	326
WEST DISTRICTS	458,125 618,210 383,321 571,158 773,175	348 529 190 505 679	234 372 127 335 454	48 62 24 76 97	41 65 18 55 63	21 104 11 39 113	1 - 10 6	3 11 3 2 10	1 1 - 2	4 2 9 8 13	1 3 1 - 2	1 1 8	3 5 - 3 2	3 3 1 2 4	7 10 4 .17: 18.	12 22 8 #1 15	36 109 24 69 88
West Districts.   St. Mary Paddington   WH   -	39015 36769 51910 18108 5415 19104 1.5539 21.654 1983 12865 19773 12885 55113 37483 10753 10967 17426	41 15 61 17 8 81 20 15 18 20 2 5 31 25 10 3 7 7	25 5 25 13 1 14 13 16 14 9 6 3 26 18 17 - 9 7	5163-731221-562-123	2261-44 4.31 -1413 -41	2   3   1   3   2	1	11 - 22 -		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	2	111111111111111111111111111111111111111	1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 1 1 1 2 - - 1 2 - - 1	3 4 6 617 - 5
NORTH DISTRICTS.  All Souls Marylebone HH Cavendish Square	20952 15000 26692 22493 34913 32540 19106 34927 29371 27508 30099 23266 44317 75442 7889 6678 5483 24461 15458	21 13 22 35 27 11 21 15 14 28 29 21 51 70 76 4 1 14 30 26	13 3 17 11 18 13 48 11 14 20 24 15 19 48 35 5 2 12 35 9	2-2441 3 -24535 88 1-226	2244233 2 2352473 611 -12441	- - 1 5 40 1 - 5 10 - 1 9 5 2 - 5 18 1	11111111111111111	1 1 4		1	1		111111111111111111111111111111111111111	1	1 3 2 2 1	1 - 1 - 2 2 5 4 2 2 2 3 3 3	7 5 - 4 89 - 9 3 - 9 4 12 6 - - 11
CENTRAL DISTRICTS.   St. George Bloomsbury   St. Giles South WH   St. Giles North   St. Giles North   St. Giles North   St. Mary-le-Strand   St. Clement Danes H   St. Adrew East Holborn W   St. George-the-Martyr HHH   St. Andrew East Holborn W   Saffron Hill   St. James Clerkenwell   Amwell Clerkenwell   Pentonville   Goswell-street   Goswell-street   Goswell-street   City-road WHHL   Whitecross-street   Finsbury   St. Botolph East London HH   Cripplegate   St. Sepulchre H   St. Bride W   St. Bride W   Castle Baynard   Christehurch   Chri	17392 19483 17201 11618 11071 10346 15207 19903 12947 12012 19152 17250 18079 16200 11504 17860 14778 12931 20990 11600 14600 14762 19800	8 12 7 3 -5 8 12 5 6 14 12 7 7 12 17 14 4 7 6 6 8 8 	769352713328724-693257313	1 3 2 2 3 3 1 1 2 2	2	1 - 1 - 1 - 2 3 - 1 2						1			2	2 - 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 6 3 111 7

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

w—Workhouse;

H—Hospital;

L—Lunatic Asylum;

w—A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLENCE, &c., registered in each Sub-district

Saturday, 6th May 1871.					_												
		during	during				The I	DEATE	is reg	istere	d in	the W	eek i	aclude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti- tutions.
Fast Districts.   Holywell Shoreditch	17313 19188 26516 25777 23260 17310	4 10 27 21 19 13	8 10 5 12 18 5	2 2 1 4 2	1 3 2 6	2 2 1 -	1		11111	ī - -	11111	111111	1	111111	1 1 -	1 3 4 2	3 1 7
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 81789 25528 21486	31 45 25 16	14 38 9 15	1 11 - 4	8 2 2	1 8 6 2				ī ·		1 -		1111	- 4 - 1	4 10 ~4	4
Artillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	10 12 1 2 10 7	1 4 16 6 17 9 3	2 2 1 - 2 1	1 4 3 -	1 2 .		1111111	1111111	- - - - 1		1 1 1 1 1 1	111/111	111111	1 4 -	5	8 13 13
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	10 18 9	10 11 9	2 5 -	- 1 5	1 -	2	111	-	-	-				1 -	ī 1	- 7
Shadwell $W$ Rateliff $W$ H Limehouse $W$ $*$	12537 16874 27161	5 17 30	1 6 13	1 1 3	1 2	1 -	ī	1 -	-	-	=	-	1 1 1	- 2	- 1	1 2	
Mile End Old Town West Mile End Old Town East WwH	33747 39317	37 44	21 21	7	3	5 4	1 -		-	3 -	-	-	-	-	ī	1	4
Bow WwHLt	35667 43529	50 30	32 21	5	7 2	1	1.1	-	-	-	-	-	ī	-	2	1	14 8
SOUTH DISTRICTS.  Christchurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	7 18 14 12 15 19 35	6 9 12 11 10 7 27 7	3 2 - 3 1 6 1	1 8 - 1 5 -	1 4 6 2 2 1 5	1	1	1111111	1 1	2		*********	1111111	1 2	1	2 - 4
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W - St. James Bermondsey Rotherhithe W Rotherhithe W	7663 11393 16696 16505 25154 24502	1 11 17 8 31 11	12 5 6 4 13 9	2 2 4 3	1 2 1 2	- 1 1 2 2	ī - -	11111	111111	1	111111	111111	11111	1	1 1 1 -	1 1	10 1 1 - 4
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	14 17 12 33 22 21 29 5	4 9 6 25 15 7 53 6	3 2 9 3 1 4	2 - 2 8 2 1 1	1 5 6 - 38 -	11111111	1 - 2 -	1 - 1	- 2 - 1 -	1111111	1 1 1		1		1 - 2	5 - 39 -
Clapham         HL         -         -         -         -         -         Wandsworth         HL         -	20894 19600 13346 6481 10082	15 38 8 6 10	20 31 12 7	6 7 2 1	5 8 5	8 14 - -	11111	- 2 - 1	11111	2 1	11111	ī -		-	11111	1111	3 3 -
Dulwich Camberwell WL†L† Peckham W St. George Camberwell	1723 21297 28135 20333	23 27 24	1 11 14 8	1 5 1	1 3 4 2	- 1 1 2	- - 1	ī	-	- 1 -	1111	ī -		1111	1111	-	4
St. Paul Deptford St. Nicholas Deptford Greeuwich West Greenwich East WH	37834 8139 21696 18306	42 1 11 14	24 4 10 9	8 2 1 2	5 1 3	3 1 1 -		1 -		1 -	1111	=	1 -	1111	1 -	2 -	- - 5
Eltham	3009 11003 7372 10595	4 6 11 9	1 1 5 5	- 2 -	- 1 -	- 2 -	- - 2				1111			1111	1	1 1	1 2 -
Charlton H Woolwich Dockyard	9276 22919 18776 11332 13170	5 9 14 18 16	5 3 9 5 7	1 2 1 2	- 1 ~	- - - - 1	1		1 1 1 1 1	1 1		1 - 1	1 -	11111	1 2 -	2 -	5 -

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh is in Chelsea North-west sub-district.

The Strand - - " " " Bilington East.

London City - " " Bow sub-district.

London City " Bow sub-district.

Tuntatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROTAL OBSERVATORY, GRBENWICH, during the Week ending Saturday, 6th MAY, 1871. [ Inder the Sumerintendence of the Astronomer Roun!

2							Met	eore	ologic	al (	Obse	ervations.
				•euozo	:	::	:::	:	:	26		nean at the property of the pr
	RAIN.	Collected		surface is 5 in. above the ground.	Inches 0.11	00.0	60.00	00.00	Sum 0.20	95		we the mean the with those re taken at the with those re taken at the mean S., from five emean daily the dry and from the second the second read of the second read read of the second read read read read read read read rea
		Pohimoon	Amount of	Horizontal Movement of Air each day.	Miles.	265	272 451 220.	171	Sum 1797	24		feet aboroider oronoider oronoider oronoest oronoest oronoest oronoest oronoider. The state of the state of the state of the state of the state or
		1		Mean of 24 Obs.	lbs. 0.1	0.0	0.3	0.0	:	65		ober 159 observed to be observed to
	ı	nemom	on squar	Least,	lbs. 0.0	0.0	0.0	0.0	:	22		idered chines of the comment of the
	WIND.	from A	Pressure on square foot	Great-	lbs. 2.8	1.8	3.1	1.1	:	21		nsiderer re construction of the construction o
ı		As deduced from Anemometers,	Direction.		NW. & W.	NW. & WSW. S. & SSE.	SSW & NW W. & WNW NW. & W.	NE. & N.	ble.	20	NOTES.	meter is co- adameter adameter a damenter a damenter a he means o he means o refions delu refions del r
		-	General D	A. M.	WNW.	WNW. & NW. SSW.	700 0	WSW & NE	Variable.	19		The height of the cistern of the barometer is considered to be 159 feet above the mean of the Nevel of the sea. The readings of the barometer are considered to be coincident with those of the Royal Society's flint glass standard havenacter. The observations are taken at the moment of the Royal Society's flint glass standard havenacter. The observations are taken at the application of corrections deduced by James Glaisher, F.R.S., from five year observations ending 1845. December 31.—284. The mean daily walues by the application of corrections deduced by James Glaisher, F.R.S., from five year observations ending 1845. December 31.—284. Phi. T.Y.A.S., part. J. 1845. The mean daily deep point and degree of humidity are deduced from those mean daily values of the day and we bulb themometers by Glaisher Hygrounders exhibited in cellum, 7. Inclue the web bulb themometers by Glaisher Hygrounders exhibited in cellum, 7. Inclue the as the results deduced from the naximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average the self-registering thermometers, the proper corrections being applied to each. The average tions taken at the Royal Observatory, Greenwich, in the By sears ending 1863, December 31. The manning the 17th column tivall be borne in mind that + is read. "higher," and "toprey," and "toprey," and "toprey, applying to the value of all the meteorological observations are to be understood as applying to the values—of the Water of the the surface. The results of the West points and the surface. The resident in spector on board the silts of the barometer intendence of the resident inspector on board the silts. Debt. A.M. on the 2d, decreased from 29*95 in, by permission of Lieut-Obl. The results of the West of the New York on the 2d, decreased to 29*97 in, by 9h. P.M., on the same day; decreased to 29*97 in, by 9h. P.M. on the seek.
ı	Degree	midity, complete		sented by 100.	- 88	69	07 69 17	, 19	74	18		cistern he reading the variation of the reading is e of hun hermon air is the reading the reading the columnia to the reading the parton on the man day; in the warm of the wa
[Under the Superintendence of the Astronomer Royal.]	CE	Between mean tem-	the day and mean tem-	the same day on an average of 50 years.*	10.1	4.2.2	1 1 . 5 . 1	+ 4.8	0.1 —	17		gitt of the no sea. The sea. The sea. The sea. The sea. The sea of
ronome	DIFFERENCE	Point ire	ture	Least.	- o;	1.3	0.0	1.0	5.6	16		he heid of til the heid of the
he Astr	DIF	Between Dew Point Temperature	Air Temperature	Great- est.	17.1	17.1	22.0 14.4 18.4	16.0	17.6	15		1
ce of t		Betwe	Air	Mean daily value.	6.8	9.7	9.00	6.4	8.5	14		the evening.  Yavriable til  Very fine.  At.11b. P.A.,  tt. P.M.; the
intenden		In the Water of	Greenwich, by self-registering	Thermometers.	52.3	50.0	52.6 51.0 48.0	50.0	50.4	13	B.	d again in the evening, oud was very variable till a cloudless. Vary fine.  Cloudless at 11h. F.M., cloud till 9h. F.M.; then
Super				Inermol Highest.	55-1	55.1	55.1 55.2 54.6	54.6	55.0	12	PHER	d agair dless sh nd was cloudle Cloud
nder the	TERS.	Lowest on the Grass, as	shown by a self-	ing Minimum Thermo- meter.	35.0	31.0	31.7 29.9 28.9	41.0	32.5	11	AND ATMOSPHERE.	ning, an mt of cloudiess. cloudiess. cloudiess. cloudiess. cloudiess. cloudies club, then clubs of the night.
a	THERMOMETERS.	Highest in the sun, as shown by	a self-regis- tering Thermo.	blackened bulb in vacuo, placed on the Grass.	103.9	108.2	127.5 101.2 114.5	130.7	113.2	10	SKY AND	Rain fell in the early mornine, and again in the evening. Generally couly till night. Nearly cloudless after 9h. F.M.  A very fine day. The amount of cloud was very variable till the evening, when it became cloudless.  Light clouds prevalent till night; then cloudless. Vary fine.  Cloudy. Rain fell during the evening. Cloudless at 11h. F.M.; then generally cloudless.  A fine day. Variable amounts of cloud till 9h. F.M.; then Fine, but hazy throughout.
	GS OF	Dew Point.	Mean	daily value,	40.8	37.7	43.0 36.3 40.8	50.1	41.2	6		all in the fine day the fine day. We clouds prove the fine day. We cloudless, the fine day.
ı	READINGS OF		Mean	daily value,	47.6	47.4	52.3 46.1 50.0	56.5	49.7	∞		Rain fell Generally of A very fit the evening Unght cloudy. Cloudy. A fine digenerally cl
		Dry.	Range	in day.	17.3	19.2	28.8 16.8 27.0	22.3	22.2	1		
ı		Q ,	-	Low-	42.8	39.7	39.1	47.6	40.1	9		was the
				High-	1.09	58.9	67.9 55.8 63.1	6.69	62.3	113-	ICITY	apparat
I	BARO-			duced to 32 degr. Fahren. heit).	in. 29·689	29.927 29.953	29.724 29.795 29.984	30.087	29.880	4	ELECTRICITY	The electrical apparatus under repair throughout week.
	Moon.		Phases of	Moon.	:	 In Equator	Full Perigee	:	:	8	E	The country of the co
				DAY.	.   30	- 63	0.410	9		umns		80 1 8 8 9 9
		1071	1101	Month and Day.	SUNDAY	MONDAY TUESDAY	Wednesday. Thursday. Friday	SATURDAY.	MEANS	No. of Columns	DATE.	SUNDAY . MONDAY . TUESDAY . WEDNESDAY . THURSDAY . FRIDAY . SATURDAY .

# WEEKLY

BIRTHS AND DEATHS AND IN NINETEEN OTHER LARGE UNITED KINCDOM.

Bu Anthocity of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 19. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, MAY 13.

General Register Office, Somerset House, 15th May 1871.

DURING the week ending Saturday the 13th instant, 4952 births and 3375 deaths were registered in LONDON and NINETEEN other LARGE CITIES and TOWNS of the UNITED KINGDOM. The aggregate mortality last week was at the rate of 24

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow: London 21 per 1000; Portsmouth 18, Norwich 20, Bristol 21, Wolverhampton 11, Birmingham 23, Leicester 17, Nottingham 10, Liverpool 32, Manchester 28, Salford 31, Bradford 23, Leeds 23, Sheffield 26, Hull 15, Sunderland 27, and Newcastle-upon-Tyne 27. The fatal cases of small-pox in these towns, which in the two previous weeks had been 357 and 370, declined last week to 318; of these 232 occurred in London, 52 in Liverpool, 12 in Newcastle-upon-Tyne, 9 in Sunderland, 5 each in Manchester and Salford, 2 in Birmingham, and one in Sheffield. The annual death-rate from small-pox was equal to 5 per 1000 last week in Liverpool, Newcastle, and Sunderland, and to 4 per 1000 in London.

The fatality from small-pox showed a further decline last week in Southampton, 13 deaths being referred to this disease, against 27 and 22 in the two previous weeks; the annual death-rate from this disease last week was, however, equal to 12 per 1000 persons in the district. The registrar reports that the number of new

cases has considerably decreased.

In Edinburgh the annual rate of mortality from all causes last week was 34 per

1000 persons living, and 35 in Glasgow.

In Brussels 159 deaths occurred in the week ending 6th instant, and the annual death-rate was 42 per 1000; these deaths included 35 from small-pox, a decrease of 5 upon those in the preceding week. In Berlin during the week ending 11th instant 585 deaths were recorded, showing an annual rate of 38 per 1000; these deaths included no less than 110 from small-pox. In Vienna the 514 deaths in the week ending 6th instant gave an annual rate of 43 per 1000; 9 were fatal cases of small-pox.

In the City of New York 538 deaths were registered in the week ending 22d ultimo, and the equivalent annual rate of mortality was 30 per 1000; 29 deaths

were referred to small-pox.

In Madras 252 deaths were registered in the week ending 31st March, showing

an annual death-rate equal to 31 per 1000 of the population.

In London 2071 Births and 1341 Deaths were registered last week. After making due allowance for increase of population, the births were 192, and the deaths 125, below the average numbers in the corresponding week of the last

ten years.

Zymotic diseases caused 380 deaths last week, including 232 from small-pox, 16 from measles, 35 from scarlet fever, 2 from diphtheria, 25 from whooping-cough, 24 from different forms of fever (of which 11 were certified as typhus, 9 as enteric or typhoid, and 4 as simple continued fever), and 13 from diarrhoa; thus to the seven principal diseases of this class 347 deaths were referred last week, against

406 and 421 in the two preceding weeks.

Greater energy appears to have been shown in securing the more general adoption of the protective influence of vaccination; and the fatal cases of small-pox in London, which in the three previous weeks had been 276, 261, and 288, declined to 232 last week. In ten permanent and temporary hospitals for this disease 81 deaths were recorded last week, of which 36 and 16 occurred respectively in the institu-

[19.7]

tions at Hampstead and Stockwell. After distributing these deaths among their proper districts, it appears that 23 deaths from small-pox last week belonged to the West group of Districts, 64 to the North, 15 to the Central, 46 to the East, and 84 to the South. A decline was shown in each of these groups of districts, but it was most marked in North and South London. The greatest fatality from small-pox was shown last week in Somers Town, Shoreditch, Bethnal Green, Mile End Old Town, Walworth, Bermondsey, Clapham, and Battersea. In the latter subdistrict 13 of 33 deaths were referred to small-pox.

To different forms of violence 52 deaths were referred last week; of these 45 were accidental, including 24 by fractures and contusions, 6 from burns and scalds, 8 from drowning, 5 from suffocation, and one from poison. Five of the deaths from fractures and contusions were caused by horses or vehicles in the streets: the daughter of a shoemaker, aged 7 years, was run over by an omnibus at Queen's Gate, Kensington, on 1st May, and died instantly; a van guard, aged 17 years, died in the Royal Free Hospital on 3d instant, from fracture of the leg through falling from his van; the son of a labourer, aged 14 years, died on 11th in St. Bartholomew's Hospital, from concussion of the brain through falling from a horse; a carman, aged 82 years, died on 3d instant, from injuries through being run over by a horse and cart; and the death of the widow of a labourer, aged 65 years, on 22d ultimo, resulted from being run over by a cart. Four cases of suicide were registered during the week.

In the large Public Institutions of the Metropolis 252 deaths were recorded last week, showing that of each 100 deaths in the week 19 occurred in these Institu-

tions, of which 7 were registered in Workhouses, and 11 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.97 in.; the highest reading was 30.21 in. on Sunday morning, and the lowest 29.77 in. at the end of the week. The mean temperature of the air was 47° 6, or 3° 8 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 72° 9 on Monday, the lowest night temperature 34° 0 on Friday; the entire range of temperature in the week was, therefore, 38°.9. The highest temperature in the sun, as shown by a self-registering thermometer with blackened bulb in vacuo, placed on the grass, was  $131^{\circ} \cdot 5$  on Sunday. The mean temperature on Monday was  $54^{\circ} \cdot 7$ , and  $3^{\circ} \cdot 0$  above the average, while on each of the other days in the week it was considerably below the average; on both Wednesday and Thursday the mean was only 45° 2, and more than 6° 0 below the average for those days. The difference between the mean dew-point temperature and air temperature averaged 7° 4. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 53°.2 last week. The mean degree of humidity of the air was 76, complete saturation being represented by 100. The direction of the wind was N.E., and the horizontal movement of the air in the week averaged 10 miles per hour. Rain fell on Monday and Tuesday to the amount of '15 of an inch, of which '13 fell in a violent thunderstorm on Monday

The mean temperature of the week in the other large English towns furnishing returns ranged from 45°3 in Norwich, to 50°·4 in Nottingham; the lowest recorded night temperature was 32°·2 in Wolverhampton, and the highest day temperature in the shade 75°·0 in Birmingham. In Leicester ·12 of an inch of rain was measured last week, but scarcely any fell in any of the other towns.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 8°·7; the highest day temperature in the shade was 22°·7; the lowest night temperature 1°·1; the highest temperature in the sun was 55°·3. The mean temperature of the corresponding week in 50 years averaged 10°·8, or 2°·1 above the temperature of last week. The wind blew at the rate of 16 kilometres an hour, and the rain-fall measured '38 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 229,198 cubic metres, and at Barking 261,883 cubic metres, equivalent to about as many tons by weight.

TABLE 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the NINETEENTH Week of Ten previous Years.

Total Births  Males  Females .	1861 1848 972 876	1862 1946 1015 931	2155 1078 1077	1864 1936 963 973	1999 1008 991	1866 2088 1076 1012	2148 1119 1029	1868 2256 1154 1102	1869 2012 1024 988	1870 2179 1156 1023	Average of 10 Weeks. 2056·7 1056·5 1000·2	2071 1048 1023
Total Deaths  Males Females .	1240	1249	1459	1306	1167	1628	1235	1340	1279	1426	1332·9	1341
	633	639	746	654	580	819	642	705	679	731	682·8	716
	607	610	713	652	587	809	593	635	600	695	650·1	625

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	Feb. 18.	Feb. 25.	Mar.	Mar. 11.	Mar. 18.	Mar. 25.	Apr.	Apr.	Apr. 15.	Apr. 22.	Apr. 29.	May 6.	May 13.
TOTAL Deaths	1625	1633	1591	1601	1576	1665	1564	1493	1722	1578	1469	1522	1341
Deaths under 5 years of age -	642 142	627 163	643 174	652 162	616 150	643 151	613 139	5 <b>73</b> 157	670 174	583 167	582 158	568 183	519· 142
Deaths 20—40	247 265 280	246 263 267	237 259 215	244 242 238	259 251 256	279 276 264	251 241 271	262 237 197	291 262 249	277 244 258	248 226 212	276 253 193	232 189 213
Deaths at 80 years & upwards	49	67	63	63	44	52	49	67	76	49	41	49	46
Deaths from Small-pox Measles	218	227 15	213 15	194 14	185 13	205	192 13	214 15	265 6	276 13	261 12	288 17	232 16
Scarlet Fever Diphtheria Whooping-cough	48 8 58	47 2 54	53. 11 53	54 9 67	33 3 55	36 6 48	33 6 41	37 6 53	40 4 66	27 4 44	30 7 45	29 4 36	35 2 25
", Typhus fever ", Enteric (or Ty-) phoid) fever	11	12	14	15	10	12	7 13	- 8	14	11	10	14	9
,, SimpleContafever ,, ,, Diarrhoea - ,, Simple Cholera -	9 14	7 14 1	18 1	15	17 9 —	· 6	11 14	10 7	6	7 15	14	13 13	13 1
n Phthisis Bronchitis Pneumonia - Heart Disease -	166 194 66 89	138 177 75 94	149 174 92 63	160 176 89 59	178 209 77 67	205 224 94 79	162 193 72 69	181 149 67 81	182 189 84 66	171 145 80 70	158 133 72 64	183 123 58 66	154 108 50 71
Iean Temperature of the Air	42.7	43.8	45.7	46.3	41.7	47.1	43.8	43.1	48.3	50.0	50.7	49.7	47-6
Mean Temperature of the Water of the Thames	40.5	42.9	43.8	45.2	45.2	44.4	47.5	45-7	47-0	50.8	51.9	52~7	58.2
Iumidity of the Air	87	81	79	78	81	82	75	76	81	89	85	74	76
Rain-fall in inches	0.02	0.06	0.11	0.47	0.58	0.02	0.03	0.01	0.36	1.75	0.80	0.20	0.12

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hall are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.;—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun, F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Braddord; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne-

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, and 13th day of May 1871, in the following large Towns.

		15th day	or bray	18/1, 111	the lollowi	15 1415	0 10111	113.			
CITIES	Area	Estimated Population	Persons	BIRTHS registered	DEATHS registered		TURE OF	IT.)	TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FA
AND BOROUGHS.	in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 13th May 1871.	during the Week ending 13th May 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	C
Total of 20 Towns in the United Kingdom -	213,281	7,336,961	34.4	4952	3375	75.0	32.2	48.5	9.16	. 0.03	
LONDON	77,997	3,258,469	41.8	2071	1841	72'9	34.0	47.6	8°66	0.12	1
PORTSMOUTH	9,513	125,464	13.2	63	43	72.8	36.5	50°1	10.06	0.00	(
Norwich	7,472	81,787	10.9	48	32	63.0	35.8	45°3	7:39	0.03	1
BRISTOL	4,688	173,364	37.0	108	68		, <del>-</del>	-		-	1.
WOLVERHAMPTON -	3,387	74,438	22.0	62	16	73.0	32.2	48°2	9.00	0.00	. 6
BIRMINGHAM	7,831	378,574	48.3	274	166	75.0	37.2	49°0	9.44	0.00	(
LEICESTER	3,200	101,367	31.7	82	33	72.7	39.5	48.8	9.33	0.15	1
NOTTINGHAM	1,996	90,480	45.3	43	17	78.4	38.5	50°4	10.22	0.05	1
LIVERPOOL .	5,108	526,225	103.0	370	318	68*2	37.4	48*9.	9.39	0.00	(
MANCHESTER	4,486	379,140	84.5	236	201		-	-	-		
SALFORD	5,172	123,851	23.9	-96	73	72.5	83.8	48.1	8.94	0.00	(
BRADFORD \	6,590	148,030	22.2	206	66	71.5	35.0	49.3	9.61	0.00	1
LEEDS	21,572	266,108	12.3	169	. 118	68.0	38.0 -	49.4	9.66	0.00	. (
SHEFFIELD	22,830	255,247	11.5	193	127	70.0	37.0	47.8	8.48	0.00	1
HULL	3,562	135,195	38.0	-89	: 39	68.0	37.0	45.9	7.72	0.03	, (
SUNDERLAND	3,306	103,037	31.2	94	54				co-est		
NEWCASTLE-ON-TYNE	5,336	136,293	25.2	82	70			-			
EDINBURGH	4,427	179,944	40.6	131	118	67.7	33.0	48.7	9.28	0.00	
GLASGOW	5,063	477,627	94.3	390	324	73.4	34.2	50.5	10.11	0.07	1 .
DUBLIN	9,745	322,321	33.1	145†	151†	-	_	-		-	

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d ultimo, will probe available before the middle of the year, and will then be substituted for these estimates.

† The usual return from Dublin not having come to hand, averages of the births and deaths in that city in the five preweeks have been used in order to make totals for the 20 towns.

TABLE 2.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the V ending Saturday the 13th day of May 1871.

	ANNUAL				Th	e DEAT	rns reg	istered	in the	Week is	nelude		
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.
Total of 17 Towns -	23	2782	625	464	318	76	76	15	59	61	36	101	172
LONDON	21	1341	272	259	232	16	35	2	25	24	13	52	94
PORTSMOUTH	18	43	10	7			1	100	3		-	1	8
Norwich	20	32	9	7		-	-	1	-	. 1	-	-	2
Briston	21	68	19	14	-	-	1	1	2	2	·	8	9
WOLVERHAMPTON -	11	16	2	3		1	-	-	1	-	-	~ .	-
BIRMINGHAM	23	166	50	21	2	20	1	3	8	1	2	12	17
LEICESTER	17	33	10	- 2	-	2	1		-		1		-
NOTTINGHAM	10	17	3	1	-	- 1	-	-	-	-	1	-	1
LIVERPOOL	32	318	82	39	52	13	13	5	6	14	4	13	17
MANCHESTER	28	201	37	34	- 5	15	2	-	2	5	1	5	14
SALFORD	31	78	22	11	5	1	2	-	2	1		2	2
BRADFORD	23	66	15	11	-	-	3	-	-	4	2	2	4 -
LEEDS	23	118	29	17	-	3	3	1	5	i	3	2	2 -
SHEFFIELD	26	127	36	9	1	3	5	-	3	3	4	3	3
HULL	15	39	9	7	-	-	1	-	-	1	2		-
SUNDERLAND	27	54	8	10	9	-	6	-	1	-	-		1
NEWCASTLE-ON-TYNE -	27	70	14	12	12	2	2	2	1	4	3	1	8
DUBLIN	-	-	-	-	-	-	-	-	-	-	-		-

TABLE 5 .- DEATHS in LONDON Registered in the NINETEENTH Week of the Year 1871.

TABLE 5.—	DEATH	s in .	LON	DOI	v K	egu	ster	ed 1	n the Nineteenth Wee	k of th	ie Ye	ar	187	1.			
	ek 1-70.	5	In t	he W	eek May	endi 13, I	ng 1871.		* *	ne ek 1-70.	S	In t	he W	Veek May	endi	ng 1871.	
b	s of the th Week trs 1861-70		Deat	ths of	f Per Age	8018	of			s of the th Week irs 1861-70.		Deat	ths o	f Per Age	sons	of	
CAUSES OF DEATH.	Averages of Nineteenth the 10 years	ALL	Un	der	-	.09	.80.	and	CAUSES OF DEATH.	Averages of Ninoteenth V the 10 years 1	ALL	Und	ler	40.	60.	. 80°	and
os.	Ave Nin in the	Mean	2	).	under 40	under	under			Ave Nine in the	AGES. Mean	20	).	under	nader	under	ars a
	52*5	Tem. 47.6	0-2-	5-20.	20 and	40 and	60 and	80 Years upwards	No. 10	52.2	Tem.	0-5.	5-20.	20 and	40 and under	60 and under 80,	80 Years upwards.
Mean Temperature -	1332.9				-	-			Mean Temperature -			0	10	CO	4	1	00
ALL CAUSES SPECIFIED CAUSES	1316*1	1341 1339	519 517			189 189	213 213	46	9. Stricture of Intestines - 10. Fistula - 11. Stomach Disease, &c	7.2	1 6		-	ī	2	3	F
I. ZYMOTIC DISEASES.									12. Pancreas Disease, &c 13. Hepatitis 14. Jaundice	4.2	3 6 19	4 2	1	1 3	7	1 2 6	H
1. Small-pox	17.6 89.5	232 16	88 16	66	61	16	1	-	15. Liver Disease, &c 16. Spleen Disease, &c	18'2	-	-		-		-	
3. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy	42.4 8.9 1.3	35 2 2 7	24 2 1	10	1	-	-	-	ORDER 5.  1. Nephritis 2. Ischuria	1.8	2	1	-	-	-	1	E
6. Croup	13·9 64·5	7 25 11	7 24	1 5	3	- 2	1111	-	3. Bright's Disease (Nephria) 4. Diabetes	8.6	8 1 1	1 -		2 -	4 -	1	- 1
- Enteric or Typhoid Fever - Simple continued Fever - 9. Erysipelas	6.6	9 4 9	1 2 2 3	4	1	1	2 2 4		6. Cystitis 7. Kidney Disease, &c	1:0 7:0	7			ī	s	1 2	ī
10. Puerperal Fever (Metria) 11. Carbuncle	3.5	2 2 2	5 - -	1	1	1	- 2	-	ORDER 6. 1. Ovarian Dropsy	1.0	2	E	-	1	-	ī	E
13. Dysentery	1·4 15·4	13	11		-	-	-	2	2. Uterus Disease, &c ORDER 7. 1. Synovitis (Arthritis) -	•1	-					1	
16. Ague	1.0 7.0	3 - 5	1	-	1 - 4	-	1	-	2. Joint Disease, &c ORDER 8.	4.1	1 4	1	1	1	ī		
19. Other Zymotic Diseases - ORDER 2.	-2	-	=		-	-	-	E	1. Phlegmon	1.9	3 -		1	-	2	-	E
1. Syphilis 2. Stricture of Urethra - 3. Hydrophobia	8·1 1·2 °1	7 1	7	=	-		1	-	3. Skin Disease, &c  IV. DEVELOPMENTAL								
4. Glanders ORDER 8.	*1-	=	=	=		-	-		DISEASES. Order 1.	18°6	13	13					
1. Privation	7 ·8 2 · 2	8 2	8		Ε	- - 1	7.	E	1. Premature Birth 2. Cyanosis 3. Spina Bifida	2·3 1·1	13 1 2	1 2	E	-		-	Ξ
4. Alco- a Del. Tremens - holism b Intemperance - ORDER 4.	3'1	=	=	=		=	-	E	4. Other Malformations - 5. Teething	18.2	18	18		Ξ		=	
1. Thrush	2:4	2 -	2	-	-	-	-	=	ORDER 2.  1. Paramenia 2. Childbirth (see Puerperal)	*4 5.0	- 6	-	-	6	-	-	
I. CONSTITUTIONAL DIS. ORDER 1.									Fever)			-					
1. Gout	2·1 12·7 30·2	-4 8 29	ī	=	- 6	- 2 - 14	2 6 8	1	1. Old Age ORDER 4.	48.2	43					24	19
4. Cancrum Oris (Noma) - 5. Mortification	3.7	3	=	=	Ē	ī	1	1	1. Atrophy and Debility -	55.6	54	47	-	1	2	4	
ORDER 2.  1. Scrofula	9.5	7 17	5 17	-	2	-	-		V. VIOLENT DEATHS, &c. ORDER 1.								
3. Phthisis 4. Hydrocephalus	178.37	154 25	5 22	21	79	40	9	E	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions 2. Wounds	18:4	24	3 -	4	6	5 -	4	2
III. LOCAL DISEASES.  ORDER 1. 1. Cephalitis	17.5	10	,						3. Burns and Scalds 4. Poison 5. Drowning	5.8 1.0 5.3	8	5 1 2	2	2	1 04	=	1 -
2. Apoplexy	17°5 33°3 28°4	18 85 21	11 5 -	6 -	7	7 8	14 9	2 3	6. Suffocation 7. Otherwise	8.2	5 1	-	-	1	1	=	E
4. Insanity	1·9 ·3 7·2	7	-	- 2	-	3	-	-	ORDER 3. (Homicide.)								
7. Convulsions 8. Brain Disease, &c Order 2.	49.6	10	54	=	ī	1	5	2	Murder and Manslaughter     ORDER 4.	1.6	2	2	-	-		-	
1. Pericarditis 2. Aneurism 3. Heart Disease, &c	2.6 3.3 59.1	1 3 71	-	- 6	1 14	- 2 18	30	3	(SUICIDE.)	*2	1 1	-	-	-	1	-	-
ORDER 3.	7:3	14	11	_	-	2	_	1	2. Poison	1.8 1.2	1 1 1	-		1 1	-	Ē	E
2. Bronchitis	115°2 2°8 69°1	108 2 50	39	1 1	3 1 8	19	40 - 8	6 -	4. Hanging 5. Otherwise	1.2		=	=			Ξ	E
5. Asthma 6. Lung Disease, &c	7°4 14°0	10 9	3	=	1	4	8 7 1		ORDER 5. (EXECUTION.)					-			
ORDER 4. 1. Gastritis	2°0 4°1 3°9	1 5	4	-	1 -	-	1	-	1. Hanging		-	-	-				
8. Peritonitis 4. Ascites 5. Ulceration of Intestines	2.2	7 4 1	-	2 -	1 -	,2 3 1 1	1 1 1 1 1	-	Violent Deaths (not classed) Sudden Deaths (Cause un-)	2.3	1	-	-	1	-		
6. Hernia	2.6 2.7 1.6	3	-	1	1	1 -	1 1 -		ascertained) Causes not specified or ill-	14.5	2	2	-	-	-	-	-
			1_	1	1		1	1			1						

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

# 158 Population, Total Births and Deaths, and Deaths from some Zymotic and other Cause

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarner

				100								du	ring i	the	w ee.	k end	ing
		during	during	-	1,	4	The 1	DEATE	ns reg	istere	d in t	he We	ek in	lude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Санев.	In Public Insti- tutions.†
LONDON	2,803,989	2071	1341	272	259	232	16	35	2	25	11	9	4	13	52	94	252
WEST DISTRICTS NORTH DISTRICTS	458,125 618,210 883,321 571,158 773,175	306 478 209 453 625	203 329 121 281 407	30 59 16 70 97	43 58 80 53 75	12 85 13 36 88	3 1 1 2 9	9 6 5 4 11	1	4 5 2 8 6	6 - 5	3 3 1 1	1 - 1 2	2 4 1 - 6	10 14 5 19	12 29 8 40 5	31 98 17 51 55
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Frompton H - St. Peter Hammersmith H - St. Patel Hammersmith H - Fulham WLLLL Chelsea North-west HWw - Chelsea North-cast L - Hanover Square - May Fair W - St. John Westminster HHH St. James's Square Golden Square W - Golden Square W - St. Anne Soho HH - St. More Hell St. Anne Soho HH -	39015 36769 51910 18198 5415 19104 15539 21854 19899 21886 19773 12885 55113 37483 30730 10753 19966 10607 17426	34 14 47 13 2 2 23 17 9 10 11 5 2 25 30 28 4 10 11 12	25 17 28 7 2 12 11 9 8 7 5 16 13 21 1	3 2 3 2 1 1 1 1 2 4 4 - 1 2 2 2	8772 - 22 42 - 285 - 3 - 1	2 4 - 1 - 1 - 4	- 3	1 1 2 1 - 2 1		1 2 2	THE THE THE THEFT		a in the first filter in the	111111111111111111111111111111111111111	111111111111111111111111111111111111111	111111111111111111111111111111111111111	assett the training
All Souls Marylebone HH - Cavendish Square Rectory Marylebone W H - St. Mary Marylebone H - St. Mary Marylebone - St. John Marylebone - St. John Marylebone - St. John Marylebone Tottenham-court wH - Gray's Inn Lane H - Somers Town - Camden Town W - Kentish Town W - Islington West* WHHH - Islington East Www - Stoke Newington L - Stamford Hill - Stamford H	29952 15090 26692 22493 34913 32540 19106 34927 29371 27803 39099 20266 44317 75442 70899 6608 5483 24265 31481 15458	23 7- 19 17 21 12 22 24 20 23 17 42 62 62 7 7 17 33 24	12 3 14 7 10 7 46 11 12 10 15 17 38 38 34 1 4 10 8 11 11 12 10 11 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18	2 2 3 1 3 2 1 2 3 5 4 9 10 	1 3 4 1 2 1 1 4 4 2 2 6 8 6 2 - 2 8 1	3 2 37 1 2 5 1 3 10 2 16		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	fiffing Phin'n man		3 1 1 1 1 1 1 2 1 2 1 2 1 3 1	3 - 1 - 1 - 51 - 2 47 - 2 - 3 -	6 6 7 37 5 8 9 4 1 19
St. George Bloomsbury St. Giles South WH	17860 14778 12931 20990 19697 11750 15395 7762 9020 8570 8659	11 27 7 6 2 8 7 9 7 6 15 9 7 14 10 21 8 6 8 7 14 14 2 8 8 14 14 14 14 14 14 14 14 14 14 14 14 14	9 13 4 56 55 6 8 2 6 4 3 6 8 8 9 4 1 6 8 3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 2 1 2 1 1 1 1 2 3 3 1 2 1 1 1 1 1 1	37 - 1233 - 11111 - 1 - 222 2211 111	111111111111111111111111111111111111111		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	filling the transfer of the tr	THE STATE OF THE PROPERTY OF THE PARTY OF TH			1	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	101111111111111111111111111111111111111

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# opulation, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 159

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 13th May 1871.

Saturday, 13th May 1871.		-															
100000		during	during			2	The D	EATHS	regis		in the	Wee	k inch	ade			
registrars' sub-districts.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.							П										
Holywell Shoreditch	17313 19188 26516 25777 23260 17310	12 13 21 18 15 11	6 13 7 5 7 9	1 5 - 1 1 3	3 - 1 -	1 5 2 1 2 3	111111	- 1 -	1111111	1	11111		1	11111	1	2 3 1 1	1
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	27 27 15 15	7 25 14 12	2 2 5	10 2 1	2 4 1		ī -	1111	1			-	1111	1111	- 4 1	14
Artillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	3 11 12 11 1 6 6	2 6 7 14 2 4	1 5 - 1	- 1 5 1	1.	2	1	1111111	111111			111111	1111111	1 4	1 4 -	3 11 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	11 10 7	7 9 7	1	1 2 2	- 2 3	=	ī	= :	1 1			-	-	=	-	- 5
Shadwell $W$ Rateliff $W$ H Limehouse $W$	12587 16874 27161	18 23	5 7 10	8 2. 4	- 1	1 2	=	1 =	- 1	-	-	-		-	2 -	3 -	-
Mile End Old Town West Mile End Old Town East WwH -	83747 89317	24 45	20 22	5 12	7 2	5	-,	, =	- 1	2		-	`-	-	1 -	2	1
Bow WwHLt	35667 43529	54 37	29 25	9 4	7 6	ĩ	-	-	-	ī	.=	=	-	-	8	16	7 5
SOUTH DISTRICTS.   Christchurch Southwark   W	17069 19101 19652 16668 19190 22675 44463 15082	8 10 21 10 12 15 34 7	9 6 12 6 7 9 24 7	3 - 1 2 1 2 10 -	1 - 3 - 1 1 4 1	2 1 1 - - 2 9 1	1 1	1		- - - - - -	- - 1 1		1	1	1111111		1 2
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W St. James Bermondsey Rotherhithe W	7663 11393 16696 16505 25154 24502	13 11 13 40 21	12 7 9 8 17 11	2 2 2 2 6 1	- 2 1 - 1 4	- 3 3 5 4		-	-	- - - 1	1	1 -	111111	11111	111311	1	12 - 1 - 3
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	4 9 13 29 21 18 16 7	8 9 4 17 13 14 29 2	4 2 1 6 2 4 3 1	- 1 - 2 5 4 3 -	2 1 - 3 2 2 19	- - 1 - -	1 - 1 - 1		1	1	1111111	111111	1	1	1 - 1	6 - 17 -
Clapham HL         -         -         -           Battersea         W         -         -         -           Wandsworth         HL         -         -         -           Putney         -         -         -         -           Streatham         -         -         -         -	20894 19600 13346 6481 10082	14 37 7 4 7	22 33 8 1 4	7 12 - 1	5 3 3 -	6 13 1 -		1 - 2		1 - - -	- - 1	11111	1 -	1	- 1 -	2 -	2 3 -
Dulwich	1723 21297 28135 20333	1 17 30 28	- 6 8 12	- 3 2	- 4 2 4	- 1 1		- ī				1111	-			-	3 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	87834 8139 21696 18306	33 5 18 15	20 1 4 9	7 - 1	5 - 2 4	1 - 1	-	1 -		1	-	-		1	1		1 1 4
Eltham	3009 11003 7372 10595	1 10 6 13	2 3 2 4	1 1 7	1 1 1 -		1 1 -		1111		-		-		1111	1111	1111
Charlton H -	9276 22919 18776 11332 13170	9 14 8 14	3 5 11 2 7	1 1 3	1 3 1 1	1	1 1 -	1111						- 1 1	- 1 -		1

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district,
The Strand - , , Tottenham-court sub-district.
London City - , , Ialington East.
Do. do. - , , , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.

London City "Hile End Old Town Eastern sub-dist. and Bow sub-district.

Stepney - "" Bow sub-district.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL UBSERVATORY, GREENWICH, during the Week ending Saturday, 13th MAY, 1871.

0								Me	eteor	rologi	cat	Obs	servations.
					Ozone	: ; :	: :	:	::	1:	56		hean hose dry
	RAIN.	Collected	in a Gauge	whose	surface is 5 in. above the ground.	Inches 0.00 0.13	0.00	00.0	00.0	Sum 0.15	25		ve the mean to with those with those with the dry ter, the dry ter, the dry constant and the constant and the constant and the dry and the constant as well as were constant as well as were constant as well as were deemined by the drough and "Louer," understood as dreamy in depth of all under the of lieutCol. in creased the increased reek.
		1	Robinson's.	Amount of	Movement of Air each day.	Miles. 235 201	358 251 123	208	334	Sum 1710	24		be 159 feet above the mean to be coincident with those of the barometer, the dry.  St. are converted into mean set also be are converted into mean set also between the dry and daily values of the dry and daily values of the dry and ourth edition. The results the incolumn 7, include the momerters, as determined by publied to each. The average the thermometrical observare ending 1863, December 31, and "higher," and "kigher," and "kigher," and "klower," ons are to be understood as ythe use of self-registering olice Ship, at the depth of this are registered under the by permission of LieutCol.  P. M. on the 5th; increased the end of the week to
	:	ers.			Mean of 24 Obs.	lbs. 0.2 0.1	9.0	0.1	0.1	:	23		to be actions of the bearing of the es, are es, are es, are s' Glais worth, burth, bur
		emomet		onsdna	Least.	lbs. 0.0 0.0	0.0	0.0	0.0	:	55		ed to deservations of the second of the seco
	WIND.	from Ar	9,	Pressure on square foot.	Great- est.	lbs.	1.3	6.0	0.5		23		onsider the connection of the result of the
		As deduced from Anemometers.	Usler's,	Direction.	P.M.	ENE. & ESE. WNW. &	NNE. NNE. NE. NE. & S.	NE. &	E. by S.	用	20	NOTES	mother is of a barometer and barometer a de barometer and evinous deductions described by the deductions deduction of the midning of the deductions deduction of the deduction decreased to 29 and decreased to 29 and decreased to 29 and decreased to 29 and decreased to 25 d
	-	-		General	A.M.	ENE. & E. ENE. & W	NNE. NE. NE.	SW.&NE.	NE.	Z	19		The height of the cistem of the barometer is considered to be 159 feet above the mean level of the sea. The readings of the barometer are considered to be coincident with those of the Royal Scotety finit glass standard barometer. The observations are taken at 9h. A.M.; non: 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry methermonicete, and the wet thermonicety observed at these times, are converted into mean daily values by the application of corrections deduced by James Glaisher, F.M.S., from five sears' observations ending 1845, December 3l.—See Phil. Trans, part 1, 1845. Then from the publication of corrections deduced by James Glaisher, F.M.S., from five we built thermometer by Glaisher's Hygrometrical Tables, Fourth edition. The results observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M., as well so the registering thermometer, the proper corrections being applied to each. The average temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, the proper corrections being applied to each. The average temperature of the air, or the minimum thermometers, and 9h. P.M., as well sate self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by M. Calisher from the thermometers, and—"louer," The manner of the orivin day, or from midnight to midnight to midnight to midnight to be divided, or from midnight to observations are to be believe the vester of the varies. The readings of the water of the Planame sa accretisated by the them the surger of the varies. The readings of the west to the surface. The reading of the believe the blow the surface. The reading of the believe the blow the surface. The reading of the beginning of the berometer increased from 30 m. The Ph. M. on the 8th; increased to 29 mid the shi, by the end of the week to 80 21 in. by 9h. A.M. on the 10th; and decreased to 29 77 in. by the end of the week to
	Degree	of Hu- midity,		being		74	778 22	83	73	92	18		cistern he readil a film g a film g a film g a film g a phin g a phylicat a cof hur hermon in its thur column in the column in t
[Under the Superintendence of the Astronomer Royal.]	320	Between	perature of	the day and	the same day on an average of 50 years.*	1+	- 5.0 - 6.1 - 6.0	6.4 -	5.2	8.8	17		ight of the sea. The sear The search Sear The search The
tronom	DIFFERENCE	Point	nre	ture.	Least.	0.0	4.5 0.0 4.5	0.0	6.1	2.0	16		The he of the boom of the boom of the boom of the boom of the bold
the As	DIE	Between Dew Po	and	Air Temperature.	Great-	17.1	10.4 12.4 13.4	17.9	12.6	14.7	15		
suce of		Betw			Mean daily value,	8.1	6.8	4.7	8.8	7.4	17		R violer lightningss.
intende			the Thames at	self-registering	Highest, Lowest.	52.6	50.8 48.6 50.8	51.4	50.5	50.8	13	57	out the
e Super		T- 41-			Highest.	6.55. 8.4.	56·1 56·0 55·8	55.6	55.3	55.6	18	PHERI	hrougho 45m., 1 quent fl was agai was agai ly cloudl ight.
Inder th	TERS.	Lowest		a self-	ing Minimum Thermo- meter.	34.0	39.0 27.9 32.2	26.0	41.0	32.8	=	AND ATMOSPHERE	oudless t ween 3b i and fre the sky rariable t the day
2.]	THERMOMETERS.	Highest in	shown by	Thermo-	bilb in vacuo, placed on the Grass.	131.5	104.3 97.2 116.9	124.0	72.4	109.0	10	SKY AND A	A very fine day, and nearly cloudiess throughout.  Very fine till 3h. P.M.; between 3h. 45m. and 3h. a violent blunder-storm, with very vivid and frequent flashes of lightning and heavy rain. After 10h. P.M. the sky was again cloudiess.  The amount of cloud was variable throughout the day, and rain fell occasionally.  Generally overcast throughout the day.  Overcast till noon; afterwards generally cloudiess.  Cloudy but fine. Slightly variable at night.
I	ADINGS OF	Dew	Point.	Mean	daily value.	41.6	39.7 38.8 37.6	41.6	9.48	40.3	6	202	fine day, and fine till 3h. P. Schorn, with vy rain. After mount of clor coccessionally.  illy overcast till noon; a but fine. Slift.
	READI			Mean	daily value.	49.7	46.5 45.2 45.2	46.3	45.9	47.6	00		A very fin Very fine Very fine Very fine Very fine Very fine Verest Coudy bu Coudy bu
		Drv.		2	day.	18.3	16.3	27.6	9.3	19-1	-		
	ı	-			- Low-	36.8	8 89.3 8 89.3	34.0	3 42.0	89.1	9		t the
ı		-	000		o High-	2 59.3	1 54.2 2 53.5 1 54.8	7 61.6	51.3	4 58.2	10	ICITY	roughor
ı	BARO-	Mean			duced to 32 degr. Fahren heit).	in. 30·192 t 30·010	29.981 30.042 29.921	29.857	29.81	29.974	4	ELECTRICITY	electrical apparatus repair throughout
	MOON.		Phases	jo	Moon.	Greatest	Last	Cuarter	:	:	9	E	The ele week,
				DAY.		1-00	9 11	12	13		nns.		
			1871.	AND		May.	SDAY.		AY.	MEANS	Colur	PE.	
				MONTH AND DAY		SUNDAY MONDAY	TUESDAY . WEDNESDAY . THURSDAY .	FRIDAY	SATURDAY	ME	No. of Columns.	DATE.	NAX. SCRDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY SATURDAY

### WEEKLY RETURN

OF

# BIRTHS AND DEATHS IN LONDON

# OF THE UNITED KINCDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 20. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, MAY 20. [Price  $1\frac{1}{2}d$ .

General Register Office, Somerset House, 22d May 1871.

Population of London, 1871.

Ur to the present date the population has, since the year 1861, been estimated for all purposes. Ten years have elapsed since the last enumeration. And during those years the Metropolis has seen many changes: that it was still increasing was evident; but no space remained open for new houses in the central parishes; merchants, traders, and professional men had left their mansions in the cities of London and Westminster to reside beyond the boundaries; and many dwellings had been demolished to make room for railways and public works. The births have exceeded the deaths year by year, but the increase of London has for generations been kept up by immigration from the English counties, from Wales, from Scotland, from Ireland, and from foreign parts: had that tide of immigration been retarded, or had it rolled on in an increasing flood?

Looking at the infinite variety of causes of disturbance, it might appear at first sight impossible to calculate years beforehand the inhabitants of London. The population in the year 1861 was 2,803,989; what was the increase? Some estimate was indispensable; otherwise the rates of mortality could not be determined; accordingly an estimated population of London for the middle of the year 1871 was published in the first Weekly Table of January last.

We have no longer to rely on that estimate. The superintendent registrars and registrars have by great zeal now furnished the actual numbers of people enumerated in the Metropolis on April 3d, and although the returns have yet to be revised at the Central Office, it is thought right to publish their first results in order to show how far they agree with the estimates on which the rates of mortality are calculated.

Population of London estimated in the Weekly Tables for middle of year 1871 - - - 3,258,469

Population enumerated as living at midnight on Sunday,

2d April - - - - 3,251,804

Calculated for that Sunday night, the estimate by the same method is 3,247,631, which differs only 4,173 from the enumerated population. This slight difference will not affect the rates of mortality, which as given for all London since 1861 may be considered correct.

[20.]

The nature of the calculation will be explained in the Census Report. It will be sufficient to state here that it was made on the hypothesis that the population of London increased at a decreasing rate; both the rate of increase and its rate of decrease having been deduced from the numbers returned at the three previous enumerations.

The population of three and a quarter million lives on both sides of the Thames—extending along its banks from Woolwich up to Hammersmith, and across its stream from Norwood to Hampstead—over 122 square miles; an area rather greater than a square of 11 miles to the side. On an average there are 2669 persons to a square mile, and, as only a certain number of people live on a given area, it became evident that the usual hypothesis of increase in a geometrical progression would no longer apply to the growth of London, and in consequence the series was calculated in 1865 which has been since used in the Weekly Tables, and of which the number cited above is one. The closeness of the estimate is another example of the constancy of the laws which rule human life and determine English progress.

The increase of the population in the ten years 1861-71 was 447,815. Not many cities in the world have a population equal to this increase of the Metropolis of the British Empire in ten years.

During the week ending last Saturday the 20th instant, 4906 births and 3510 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week was at the rate of 25 deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 24 per 1000; Portsmouth 16, Norwich 16, Bristol 16, Wolverhampton 27, Birmingham 22, Leicester 23, Nottingham 16, Liverpool 29, Manchester 27, Salford 35, Bradford 26, Leeds 24, Sheffield 25, Hull 20, Sunderland 25, and Newcastle-upon-Tyne 28. The fatal cases of small-pox in these towns, which in the two previous weeks had been 370 and 318, were last week 355; of these, 267 occurred in London, 50 in Liverpool, 14 in Newcastle-upon-Tyne, 10 in Manchester, 9 in Sunderland, and 5 in Salford. The annual death-rate from small-pox was equal to 4 per 1000 in London, and 5 each in Liverpool, Newcastle, and Sunderland.

Small-pox continues fatally prevalent in many parts of the country besides the above large towns; its fatality, however, has declined in Croydon, Brighton, North Meols, Stockton, Hartlepool, South Shields, and Llanelly. In Durham, Gateshead, Swansea, and Falmouth the deaths from small-pox in the first half of this quarter showed an increase upon the first three months of the year. In Yarm sub-district, containing the town of Middlesborough, 53 deaths from small-pox were recorded in the six weeks ending 13th instant, against 31 in the first quarter of the year. The disease became epidemic in Great Grimsby towards the end of last quarter, causing 18 deaths; in the six weeks ending 13th no less than 70 were registered, showing an annual death-rate of 21 per 1000 upon the enumerated population at the recent Census; the registrar also reports that 17 more fatal cases occurred between the 13th and 19th instant; this epidemic approaches in severity that which has been raging in the large Dutch towns, with which Great Grimsby is in intimate commu-

nication. In Southampton 17 deaths were last week referred to small-pox, against 27, 22, and 13 in the three preceding weeks; the annual death-rate from this disease last week was equal to 16 per 1000 persons living in the district; the registrar reports an increase in the number of fresh cases, and states that 55 are at present in the Workhouse, and 17 in the temporary Hospital. In Weymouth the disease has appeared in a severe form, which resulted in six deaths in the early part of last week.

In Edinburgh the annual rate of mortality from all causes last week was 32 per 1000 persons living, in Glasgow 33 per 1000, and in Dublin 25.

In Brussels 124 deaths occurred in the week ending 13th instant, and the annual death-rate was 33 per 1000. In Berlin during the week ending the 18th instant 512 deaths were recorded, including 83 fatal cases of small-pox, they showed an annual rate of 33 per 1000. In Vienna the 475 deaths in the week ending 13th instant gave an annual rate of 40 per 1000.

In the City of New York 461 deaths were registered in the week ending 29th ultimo, and the equivalent annual rate of mortality was 26 per 1000.

In Bombay the deaths registered during the week ending the 18th ultimo were 336, and the mortality was at the annual rate of 21 per 1000. In Madras 256 deaths were registered in the week ending 7th ultimo, showing an annual death-rate equal to 31 per 1000 of the population.

In London 2069 BIRTHS and 1486 DEATHS were registered last week. After making due allowance for increase of population, the births were 162 below, while the deaths exceeded by 86, the average numbers in the corresponding week of the last ten years.

Zymotic diseases caused 461 deaths last week, including 267 from small-pox, 11 from measles, 28 from scarlet fever, 8 from diphtheria, 43 from whooping-cough, 34 from different forms of fever (of which 9 were certified as typhus, 18 as enteric or typhoid, and 7 as simple continued fever), and 22 from diarrhea; thus to the seven principal diseases of this class 413 deaths were referred last week, against 421 and 347 in the two preceding weeks.

The fatal cases of small-pox in London, which in the previous week had declined to 232, rose again last week to 267; in the six weeks ending last Saturday the weekly numbers have averaged 265. In nine permanent and temporary hospitals for this disease 110 deaths were recorded last week, of which 42, 28, and 37 occurred respectively in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths among their proper districts, it appears that 16 deaths from small-pox last week belonged to the West group of Districts, 79 to the North, 20 to the Central, 51 to the East, and 101 to the South. The principal. increase occurred in the North and Central groups of Districts, while a further decline was shown in the West of London. The greatest fatality from small-poxagain prevailed last week in Somers Town, St. Pancras, Bethnal Green, Mile End Old Town, Southwark, Walworth, Lambeth, and Battersea. In the latter sub-district, during the past seven weeks no less than 96 deaths have been referred to small-pox, showing an annual rate of mortality from this disease alone equal to 13 per 1000 of the enumerated population in April last; the death-rate from small-pox in the whole of London has averaged 4 per 1000 during the six weeks ending last Saturday. High as this death-rate doubtless is, it is well to bear in mind that it is still small compared with that which prevails in the large Dutch towns, and in many other parts of the continent.

To different forms of violence 56 deaths were referred last week; of these 45 were accidental, including 22 by fractures and contusions, 4 from burns and scalds, 3 from drowning, 12 from suffocation, and one from poison; 10 of the 12 cases of suffocation were of infants. Three of the deaths from fractures and contusions were caused by horses or vehicles in the streets. Six of the deaths registered in the week were cases of suicide.

In the large Public Institutions of the Metropolis 344 deaths were recorded last week, showing that of each 100 deaths in the week 23 occurred in these Institutions, of which 8 were registered in Workhouses, and 14 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.83 in.; the highest reading was 30.11 in, on Saturday morning, and the lowest 29.67 in. on Sunday morning. The mean temperature of the air was 50°·1, or 2°·5 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 69°.8 on Friday; the lowest night temperature 36°.3 on Tuesday; the entire range of temperature in the week was, therefore, 33°.5. The highest temperature in the sun was 131° 3 on Monday. The mean temperature was below the average on each of the five first days in the week, but showed an excess on Friday and Saturday. On Wednesday the mean was only 45° 5, and 7° 1 below the average, while on Saturday it rose to 56°.5, and was 3°.0 above the average. The difference between the mean dew-point temperature and air temperature averaged 8°.6. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 52°.4 last week. The mean degree of humidity of the air was 73, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air in the week averaged 9 miles per hour. Rain fell during the week to the amount of only '16 of an inch; the whole of this was measured on Thursday.

The mean temperature of the week in the other large English towns furnishing returns, ranged from 43°·6 in Hull, to 51°·8 in Portsmouth; the lowest recorded night temperature was 29°·0 in Hull; and the highest day temperature in the shade 72°·4 in Portsmouth. Rain was measured last week in each of these towns, except Portsmouth and Newcastle; the amounts varied from '63 of an inch in Salford, to '05 in Wolverhampton and Birmingham.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 10°·1; the highest day temperature in the shade was 21°·0, the lowest night temperature 2°·4, the highest temperature in the sun was 55°·2. The mean temperature of the corresponding week in 50 years averaged 11°·4, or 1°·3 above the temperature of last week. The wind blew at the rate of 15 kilometres an hour; and the rain-fall measured ·41 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 199,935 cubic metres, and at Barking 220,549 cubic metres, equivalent to about as many tons by weight.

Note.-A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the TWENTIETH Week of Ten previous Years.

TOTAL Births Males Females	1861 1935 1013 922	1862 1870 938 932	186 <b>3</b> 1875 919 956	1864 1814 918 896	1865 2192 1083 1109	1866 1919 970 949	1867 2263 1165 1098	2223 1104 1119	1869 1911 950 961	1870 2277 1217 1060	Average of 10 Weeks.  2027.9 1027.7 1000.2	2069 1070 999
Total Deaths Males Females	1219	1125	1350	1421	1168	1467	1119	1268	1281	1313	1273·1	1486
	624	579	703	761	622	778	595	691	67 <b>7</b>	697	672·7	778
	595	546	647	660	546	689	524	577	604	616	600·4	708

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

and the second	Feb. 25.	Mar.	Mar. 11.	Mar. 18.	Mar. 25.	Apr.	Apr. 8.	Apr. 15.	Apr. 22.	Apr. 29.	May 6.	May 13.	May 20.
Total Deaths	1633	1591	1601	1576	1665	1564	1493	1722	1578	1469	1522	1341	1486*
Deaths under 5 years of age - Deaths 5-20	627 163	643 174	652 162	616 150	643 151	613 139	573 · 157	670 174	583 167	581 159	568 183	519 142	594 152
Deaths 20—40——————————————————————————————————	246 263 267 67	237 259 215 63	244 242 238 63	259 251 256 44	279 276 264 52	251 241 271 49	262 237 197 67	291 262 249 76	277 244 258 49	248 226 212 41	276 253 193 49	232 189 213 46	260 214 207 45
Deaths from Smallpox	227 15 47 2 54 12	213 15 53 11 53 14	194 14 54 9 67 5	185 13 33 3 55 10	205 10 36 6 48 12	192 13 33 6 41 7	214 15 37 6 53 8	265 6 40 4 66 8	276 13 27 4 44 11	261 12 30 7 45 10	288 17 29 4 36 7	232 16 35 2 25 11	267 11 28 8 43 9
", Enteric (or Ty-) phoid) fever -  ", Simple Contd fever ", Diarrhœa	15 7 14	17 5 13	15 7 15	16 17	14 6 9	13 11 14	10 7	9 6	15	13 14 14	14 13 13	9	18
" Simple Cholera -	1	13	-	-	1		_	-	15	14	- 13	13	22 2
,, Phthisis Bronchitis Pneumonia - Heart Disease -	138 177 75 94	149 174 92 63	160 176 89 59	178 209 77 67	205 224 94 79	162 193 72 69	181 149 67 81	182 189 84 66	171 145 80 70	158 133 72 64	183 123 58 66	154 108 50 71	170 100 62 53
Mean Temperature of the Air	43.8	45.7	46.3	41.7	47.1	43.8	43.1	48.3	50.0	50.7	49.7	47.6	50.1
Mean Temperature of the Water of the Thames -	42.9	43.8	45.2	45.2	44.4	47.5	45.7	47.0	50.8	51.9	52.7	53.2	52.4
Humidity of the Air	81	79	78	- 81	82	75	76	81	89	. 85	74	76	73
Rain-fall in inches	0.06	0.11	0.47	0.28	0.02	0.03	0.01	0:36	1.75	0.80	0.50	0.15	0.16

<sup>\*</sup> The return for the sub-district of Peckham was not received while the tables were under preparation, but an average of 14, derived from the returns of six previous weeks, is substituted for the true number, which is 14.

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Licester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 20th day of May 1871, in the following large Towns.

CITIES AND BOROUGHS.	Area in Acres.	Estimated Population in the middle of the Year 1871.**	Persons to an Acre. (1871.)	BIRTHS registered during the Week ending 20th May 1871.	DEATHS registered during the Week ending 20th May 1871.		ATURE OF AHRENHE Lowest during the Week.		TEMPERATURE OF THE AIR. (CENTI-GRADE.)  Weekly Mean of the Daily Mean Values.	RAIN In Inches.	In Cent
Total of 20 Towns in the United Kingdom -	213,281	7,336,961	34.4	4906	3510	72.4	27.0	47.2	8:44	0.14	0.3
LONDON	77,997	3,258,469	41.8	2069	1486	69*8	36.3	501	10:06	0.16	- 0°4
PORTSMOUTH	9,513	125,464	13.2	76	. 38	72.4	38.9	51.8	11.00	0.00	0.0
Norwich	7,472	81,787	10.9	50	25	66*0	33.0	46.5	8.02	0.18	0.4
Bristol	4,688	173,364	37.0	120	52		_			1	
WOLVERHAMPTON -	3,387	74,438	22.0	46	38	63.2	33.8	47.8	8.48	0.02	0.13
BIRMINGHAM	7,831	378,574	48.3	267	163	64.2	34.2	48.4	9.11	0.02	0.13
LEICESTER	3,200	101,367	31.7	72	45	61'0	83.0	46.7	8.16	0.18	0.4
NOTTINGHAM	1,996	90,480	45'3	52	27	65.4	33.6	47.2	8.44	0.12	.0*38
LIVERPOOL	5,108	526,225	103.0	. 320	297	59'1	35°1	48°4	9.11	0.34	0.8
MANCHESTER -	4,486	379,140	84.2	. 277	196	-		_			-
SALFORD	5,172	123,851	23.9	99	82	57.6	33.9	45.9	7.72	0.63	1.6
BRADFORD	6,590	148,030	22.5	119	73	59'1	32.6	46.3	7.94	0.09	0.5
LEEDS	21,572	266,108	12.3	220	120	59.0	84.0	45.4	7.44	0.17	0.4
SHEFFIELD	22,830	255,247	11.5	188	124	61.0	33'6	46.1	7.83	0.16	0.4
HULL	3,562	135,195	38.0	99	52	64°0	29.0	43.6	6.44	0.06	0.19
SUNDERLAND	3,306	103,037	31.2	68	50	-	_		college .		
NEWCASTLE-ON-TYNE	5,336	136,293	25.5	98	74	60.0	31.0	43.7	6.20	0.00	. 0.00
EDINBURGH	4,427	179,944	40.6	118	109	61.7	27.0	45.6	7.55	0.20	0.2
GLASGOW	5,063	477,627	94.3	346	306	-	-		-		-
DUBLIN	9,745	. 322,321	33.1	202	153	66.9	32*2	51.8	11.00	0.07	0.18

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d ultimo, will probable before the middle of the year, and will then be substituted for these estimates.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Wee ending Saturday the 20th day of May 1871.

		- U				)								
	ANNUAL	. :			Th	e DEAT	rns regi	stered i	in the V	Week in	clude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhæs.	Violence.	Inquest Cases.	In Public
Total of 17 Towns -	24	2942	677	495	355	93	64	16	86	83	42	114	180	52
LONDON	24	1486	321	251	267	11	28	8	43	34	22	56	101	34
PORTSMOUTH	16	38	11	6	-	-	-	_	3.	1	Dec 1	5	-5	2
NORWICH	:16	25	5	7					. 1	_ 1	1	-	2	. 9
BRISTOL	16	52	10	12	-	2	1	-:	-	2	1	3	-5	1
WOLVERHAMPTON -	27	38	7	9	-	1	-	-	1	· 1	-	3	4.	1
BIRMINGHAM	22	163	45	21	-	21	1	3	- 8	4	1	6	10	- 1
LEICESTER	23	45	14	6	-	-,	3	1	1	3	2	-	-1	. 8
NOTTINGHAM	16	27	7.	. 9	- ma 1	996	11		,-		-	_1	1	3
LIVERPOOL	29	297	76	56	50	20	9	1	12	16	3	11	12	4
MANCHESTER	- 27	196	38	. 33	10	8	3	1.	1	5	3	5	10	3
SALFORD	35	82	21	9	5	15	2		1	2	3	5	6	1
BRADFORD	26	73	24	10	1 To 1	- 1	5	1	2.	2	-	1	3	4
LEEDS	24	- 120	36	18	-	3	5	1	-	8	2	4	6	1
SHEFFIELD	25	124	25 -	24	-	6	1	-	7	2	2	5	5,	2
HULL	20	52	11 '	8	-	6	2	-	-	-	-	1	1	
SUNDERLAND	25	50	6	7	9	-	3	-	3	_ 1	1	4	4	1
NEWCASTLE-ON-TYNE -	28	74	20	9	14	-	-		4	1	1	4	4	
DUBLIN	25	153	23	34	1	-	2	1,1,	3	10	2	2	: 4	53

TABLE 5 .- DEATHS in LONDON Registered in the Twentieth Week of the Year 1871.

TABLE 3.	-DEATE	13 111	110	NDO		icg.	is (C)	.ca ,	ii the I WENTIETH Week	OI UII	e lea	*I. ]	1011				
	he eek 31-70.	Sa	In the	he W	eek May	endi 20, 1	ng 871.			he eek 31-70.	S	In t	he W	eek May	endî: 20, 1	ng 871.	
GATTER OF DEATH	es of t eth W ars 18	1	Deat	hs of the	Per	sons	of		CHANGES OF DEFENT	es of t		Deat	hs of the	Per Age	sons	of	
CAUSES OF DEATH.	Averages of the Twentieth Week the 10 years 1861-70.	ALL AGES.		der 0.	under 40.	er 60.	er 80.	and	CAUSES OF DEATH.	Averages of the Twentieth Week the 10 years 1861-70.	ALL AGES.	Un 2	der	er 40.	er 60.	er 80.	and
	in th	Mean Tem.		1	d und	d under	d under	Years upwards.		Try in the	Mean Tem.			d under	d under		) Years upwards.
Mean Temperature –	53.4	50·1	0-5	5-20.	20 and	40 and	60 and	(80 Y	Mean Temperature -	53.4	50.1	0-5.	5-20.	20 and	40 and	60 an	No Y
ALL CAUSES	1273.1	1486†	594	153	260	214	207	44	9. Stricture of Intestines -	1.0 .3 6.1	2	-	-	-	2	-	-
SPECIFIED CAUSES ZYMOTIC DISEASES.	1259.8	1467	590	152	260	214	207	44	11. Stomach Disease, &c 12. Pancreas Disease, &c 13. Hepatitis	2.9	3 7			2 - 2	- 4	1 - 1	1
ORDER 1. Small-pox	18.0	267	99	76	74	13	4	1	14. Jaundice	3.7 15.4	20	111	1	3	7	9	-
Measles Scarlet Fever (Scarlatina) Diphtheria	39 ° 0 44 ° 8 8 ° 4	11 28 8	10 19 4	1 7 4	2	-	=	-	ORDER 5.	1.2	2	1	1	_	-	-	-
Quinsy Croup Whooping-cough	14'8 62'3	17 43	16 43	1	-=		-	-	2. Ischuria – – – 3. Bright's Disease (Nephria) 4. Diabetes – – –	8.5 1.8 1.0	9 2	1.	-	3 2	4	ī	-
Typhus	43.9	9 18 7	1 6 4	3 5 1	2 5 1	2 1 -	1 - 3	- 1	5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	1:0 6:7	2 1 10		1	-	- 4	2 1 3	- 1
Erysipelas Puerperal Fever (Metria) Carbuncle	5.0 2.6 1.4 .8	8 3 1	3 -		2 2 -	ī -	1 -		ORDER 6. 1. Ovarian Dropsy	:6	2 3	-	-	2	-	-	-
Dysentery Diarrhea Simple Cholera	1'8 14'6	8 22 2 2	1 19 2	1	1	ī -	ī	1 1 1	2. Uterus Disease, &c ORDER 7.  1. Synovitis (Arthritis) -	4.6	-		_	-	2	-	
Remittent Fever Rheumatism	9 9 9	2 -	-	1 3	- 3	- - 1	1 - 4	-	2. Joint Disease, &c ORDER 8.	5.2	6	1	2	-	1	2	-
ORDER 2. Syphilis	5.9	6	5		1		_		1. Phlegmon	2.0 1.3 1.3	3 2 1	-		1 -	1	2 -	1 -
Stricture of Urethra Hydrophobia Glanders	1.9	6 2 -	1 1 1	=		2 -		Ē	IV. DEVELOPMENTAL DISEASES.								
ORDER 3. Privation Want of Breast-milk -	5 5 5 2 9	ıī	11	-		-	-	-	ORDER 1.  1. Premature Birth	21:4	22	22	-	-	-	-	-
Purpura and Scurvy Alco- a Del. Tremens holism b Intemperance	2.9 3.0 1.0	3 1	1	1 -	1 -	3	Ť 1.	-	3. Spina Bifida 4. Other Malformations - 5. Teething	1'9 '8. 2'3 15'2	1 1 13	1 1 13		=	-	-	-
ORDER 4. Thrush Worms, &c	3.2	-		-	=	-	-	-	ORDER 2.	•5	-	-	-	-	-	-	-
CONSTITUTIONAL DIS. ORDER 1.									2. Childbirth (see Puer-) peral Fever)	5.1	4		-	4	-	-	-
Gout	1°9 13°7 29°6	1 10 32	4	- 1	1 6	1 2 13	2 10	- 1 2	1. Old Age ORDER 4.	45.4	42		-	4 =	-	20	22
Cancrum Oris (Noma) - Mortification ORDER 2.	2.6	4	-	ī	-	- 3	3		1. Atrophy and Debility - V. VIOLENT DEATHS, &c.	.51.9	62	60			-	2	-
Scrofula	9°0 17°8 175°5	5 22 170	3 21 9	1 15	1 86	54	- 5	- - 1	ORDER 1. (ACCIDENT OF NEGLIGENCE.)								
. Hydrocephalus II. LOCAL DISEASES.	30.1	36	33	3	-	-	-	-	1. Fractures and Contusions 2. Wounds	3.9 .3 .9	22 1 4	3 - 3	2	5	6	5	1
ORDER 1. Cephalitis	14.6	17	12.	2	1	1	1	-	4. Poison	1.0 4.8 4.9	1 3 12	1 10	1	-	1 2	-	-
Apoplexy	32·9 27·8 2·2	30 24 2	3 -	1	3 2 -	13 5 1	9 14 1	2 2 -	7. Otherwise ORDER 3.	2.4	2			1	1	-	-
Epilepsy Convulsions Brain Disease, &c	7·2 47·5 17·8	7 38 12	1 36 2	2	1 2	3 - 5	1 3	1	(HOMICIDE.)  1. Murder and Manslaughter	2.4	3	3	_	-	-	-	-
ORDER 2.	1.9	5 5	-	1		2 1 18	-		ORDER 4. (SUICIDE.)								
. Aneurism . Heart Disease, &c ORDER 3.	56.0	58	ī		12		19	ī	1. Wounds { Gunshot Cut, Stab - Drowning	1:4 1:4	1 1 -	- -	-	1		1 -	=
Laryngitis Bronchitis Pleurisy Pneumonia	6.2 103.8 3.4 67.0	7 100 4 62	6 37 1	2	4	1 12 2	41	4	3 Drowning	1'1 1'9 '4	2 2 -	-	-	1	1 -	2 -	
Lung Discase, &c	5.3 13.0	62 8 13	42 - 2	2	3 1	2 7 8 4	7 5 6	-	ORDER 5. (EXECUTION.)						^		
ORDER 4 Gastritis Enteritis Peritonitis	1.7 5.2 4.9	2 4 11	3	1	1 10	2 -	. 1 13		1. Hanging Violent Deaths (not classed)		2	-	1	-	-	-	
Ascites Ulceration of Intestines	2.8	6 3 4 4	3 2 3 1	1	3 2 1	1	5		Sudden Deaths (Cause un-)	1.8	3	3	-	-	-	-	-
Ileus	2°8 2°5 2°5 1°7	4	1 -	1	ī	-	-	1 1 -	ascertained)	11.2	16†	1	1	-	-	-	-
	-	_											-	-	_	_	

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

<sup>†</sup> An average of 14 is added without distinction of ages. See note \*, page 185.

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

													du	ring	the	Wee	k en	ding
			during	during		·	- 1	The	DEAT	нз ге	gister	ed in	the V	Veek i	includ	е		
REGISTRARS' SUB-DISTRICTS.		POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
LONDON -		2,803,989	2069	1486	321	251	267	11	28	8	43	9	18	7	22	56	101	344
WEST DISTRICTS NOETH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS		458,125 618,210 383,321 571,158 773,175	323 484 186 414 662	227 388 167 253 451	49 78 39 64 91	59 61 30 38 63	8 113 13 34 99	3 6	3 9 5 1 10	2 3 - 3	9 8 4 11 11	1 3 - - 5	6 2 3 4	2 5	5 5 2 8 7	14 10 5 13 14	29 21 14 21 16	42 124 43 41 94
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Brompton H - St. Peter Hammersmith - St. Peter Hammersmith - St. Paul Hammersmith - Chelsea South HH - Chelsea North-west HWw - Chelsea North-west L - Hanover Square - May Fair W - St. John Westminster HHH St. Margaret Westminster WN St. James's Square Golden Square W - Berwick-street - St. Anne Soho HH -	7HH	3901.5 387769 51910 18198 5415 19104 1.5539 21664 19899 21886 19773 12885 55113 37483 30730 10753 13966 10607 17426	40 16 63 6 3 19 20 14 17 16 6 6 27 33 16 3 7	27 8 29 12 4 21 11 13 14 13 14 13 22 17 14 3 4 25 17	6 -10 11 22 33 33 -4 -11 26 4 -11 22	8283143 542 13563 111	1 3 - 1			The Control of the Control of the	1 3 3 1	1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		1 1 1 1 1 1 1 2 1 1 1 1	128 121 111 131 111	2283-3-3141-11	4 4 5 8 1 1 3 8 7 7 7 2 4 7 4 7 1 1 1
NORTH DISTRICTS.  All Sonls Marylebone HH — Cavendish Square — — Rectory Marylebone WH — St. Mary Marylebone H — Christchurch Marylebone — St. John Marylebone — St. John Marylebone — Hampstead WHH — Regent's Park Pancras — Tottenham—court 10H — Gray's Inn Lane H — Somers Town — Camden Town W — Kentish Town W — Islington West* WHHH — Islington Vest* WHHH — Islington East Www — Stoke Newington L — Stamford Hill — West Hackney — Hackney WoHL — South Hackney L —		29952 15/99 29692 22493 34913 32540 19106 34927 29371 27808 39099 23266 44317 75442 79899 66/98 5483 24265 31481 15453	14 7 15 27 21 16 10 24 16 17 34 10 52 69 72 23 30 18	18 6 19 6 17 14 53 9 16 19 21 13 27 42 45 1 2 12 41 7	1 2 5 1 8 6 5 2 1 1 3 5 9 8 12 1 -1 5 2	3 2 2 1 1 1 1 3 7 4 2 4 7 10 - 1 8 6 1	-1 11 12 43 1 -2 9 2 3 9 6 1 1 2 27		1 1 3 1 1 1 1 1	111111111111111111111111111111111111111	111113	1	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 8 1 1 1 1	1 2 2 1 1 6 1 4 - 1 - 2 - 2 -	8 9 - - 2 46 - - - - - - - - - - - - - - - - - -
CENTRAL DISTRICTS. St. George Bloomebury - St. Giles South WH - St. Giles South WH - St. Giles North - Charles Cross WH - St. Mary-le-Strand - St. Clement Danes H - St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell - Pentonville - Goswell-Street - City-road WHHL - Whiteeross-street - City-road WHHL - Whiteeross-street - St. Botolph East London HH Cripplegate - St. Sepulchre H - St. Eride W - Castle Baynard - Christchurch - Queenhithe - Allhallows Barking - Broad Street - Gallacius Barking - Broad Street - Christchurch - Gueenhithe - Allhallows Barking - Broad Street - Broad Street - Christchurch - Gueenhithe - Allhallows Barking - Broad Street - Christchurch - Gueenhithe - Allhallows Barking - Broad Street - Christchurch - Gueenhithe - Allhallows Barking - Broad Street - Christchurch - Gueenhithe - Allhallows Barking - Broad Street - Christchurch - Gueenhithe - Allhallows Barking - Broad Street - Christchurch - Gueenhithe - Allhallows Barking - Broad Street - Christchurch - Gueenhithe - Christchurch - Christchurch - Christchurch - Gueenhithe - Christchurch - Gueenhithe - Christchurch - Christchur		17392 19483 17201 11618 11071 10346 15207 19003 12904 12912 19152 17259 13079 16200 11594 17860 14778 12931 29990 11750 1478 12931 14932 1	5 19 7 5 4 3 3 14 11 7 9 8 10 9 11 16 12 2 6 6 4 8 8	4877 26 83 111 177 11 48 68 44 44 477 102 88 22 16 22 13 3 8 2	131 115411 1133	22 1 - 48 82 - 2 1 122 21111	1 - 1 - 2 4 - 4	COUNTRICE OF THE STATE OF THE S	211111111111111111111111111111111111111	Contraction of the Contraction o	1		111 1120 111111111111111111111		1	111111111111111111111111111111111111111	11 1 2 1 1 1 1 2 1 1 3 1 1 1 1 1 1 1 1 1	8 - 4 - 4 - 6 - 15

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H-Hospital;

I.—Lumtic Asylum;

v.—A Workhouse not belonging to the district in which it is situated.

<sup>•</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

Fever, Diphtheria, Whooping-cough, Fever, Diarrhea, Violence, &c., registered in each Sub-district Saturday, 20th May 1871.

		80	gu				The I	DEATE	is reg	istere	d in t	the W	eek ir	clude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS during the Week.	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases:	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch	17313 19188 26516 25777 23260 17310	8 7 22 17 13 13	4 7 3 15 8	132333	1 2 -	1 1 3 - 2		111711	111141		111111	111111	111111		1	1111911	4 - 2 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	18 23 16 19	11 13 7 7	3 2 - 2	2 1 -	5 3 3 2		1111	1111	2	1111	1111	1	i i i	1.1.1	1111	2 -
Artillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	4 7 10 7 4 9 3	5 6 15 3 10 5 3	3 1 1 1 1 1	2 1 5 1 2 1	2 - 1	1111/111	111111	1111111	1	1111111	1 - 1	1111111	111111	1 3 -	2 1 4 -	6 9 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	7 10 9	8 9 11	3 2 4	1 1 3	-	1	-	1 1 1	1 -	111	111	1		ĩ	1 2 1	- 6
Shadwell $W$	12537 16874 27161	9 8 22	- 5 13	2 3	- 2 2	1		1 1 1		- 1	-			-	11	1 1	-
Mile End Old Town West Mile End Old Town East WwH	33747 39317	26 37	14 22	5 7	4	<b>4</b> 3	, =	-t t.	-	1 2	-		1.1	-	1	2	3
Bow WwHL† Poplar WH	35667 43529	59 27	29 11	9	3	1	% <del>-</del>	1 -	-,	1 -	-	1	1.1	1	2 -	2	. 8
SOUTH DISTRICTS.  Christchurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	9 10 11 14 13 19 46 13	11 10 11 8 4 8 28 15	2 4 2 1 2 1 6 2	1 3 - 3 1 - 4 2	2 1 6 - 1 1 5	1	1	1111111	1 - 1	1	1711111		1111115	1 2 2 2	1 3 2	1 - 6 6
St. Olave Southwark H	7663 11393 16696 16505 25154 24502	5 6 8 18 44 19	10 6 12 5 10 13	1 6 1 2 4	1 1 2 1	- 3 1 1	1		11111	- - - - 1	111111	11111	- - - 1	1 1	2 -	1:	7 - 2 - 8
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W	15269 18640 19839 29542 30785 20440 20067 7462	12 17 15 34 20 25 16 5	5 8 9 24 15 13 52 4	3 8 2 8 5 3 4 -	1 2 5 4 2 1 8	2 1 6 3 2 41		1 - 1 - 2 -	1	1 1 1	1111111	1	1111111	11111111	2	1 4 -	11 38
Clapham         HL         -<	20894 19600 13346 6481 10082	17 40 9 6 4	7 38 7 2 6	1 9 1 1	3 - 1	3 13 - -	1111	1		- - 1	1 -			11111	1 - 1	1 - 1	1 5 -
Dulwich Camberwell WL†L†	1723 21297 28135 20333	1 29 28 21	14 14 14 15	5 5	1 - 3	1 2	- ī	1	-		-	2	- - 1				2 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	29 2 11 10	14 4 7 7	3 - 2	1 1 1 1	2 -	1111	1111	1 -	1 -	- - 1	1	1 -	1111		1111	
Eltham	3009 11003 7372 10595	2 11 4 11	- 1 5 7	1	1 1 4		1111	1111	1111	1111		1111		1111	1111	1199	1111
Charlton H Woolwigh Doekyard	9276 22919 18776 11832 13170	8 16 6 13	7 5 6 1 3	2 1 1 1 1	- 2 -	11111	1	11111	11111	11111	1		1	1 1 1	1 1 -	11111	6 -1 -

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.
The Strand - " " Tottenham-court sub-district. London City - " " Islington East. Hackney snb-district. Ste Holborn Workhouse is in Hoxton New Town sub-district.

London City , (Mile End Old Town Eastern sub-distr. and Bow sub-district.

Stepney - , Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7 .- METEUROLOGICAL OBSERVATIONS taken at the ROTAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 20th Max, 1871. [Under the Superintendence of the Astronomer Royal.]

-								-	_		×	10	1 1	d 0.43 x .		1 70 6	) and b 40	1 12 0			
-		-	1 :	euozo		:	:	::	:	-		56		those at a te dry	mean a five daily	y and	well d by	erva er 31 wer,	ering	Col	eased
H RATE	TPATEN.	Collected in a Gauge	-		Inches 0.00	00.0	00.0	0.00	0.0	0.00	Sum 0.16	557		ove the nt with are take	S.S., fron	The dry and The results include the	F.M., as well etermined by The average	rical obs Decemb 1d - "lo anderstoc	epth of a	of LieutCol	the wee
1	-	Robinson's.	Amount of	Movement of Air each day.	Miles.	171	190	258	178	277	Sum 1579	24		d to be 159 feet above the mean dered to be coincident with those The observations are taken at addings of the barometer, the dry	convertible, F.R. 1848. Til	values of	and 9h srs, as de	ng 1863, gher," at e to be u	use of seat the d	by permission o	ining of the 15th
				Mean of 24 Obs.	lbs.	0.0	0.0	0 0	0.0	0.5		23		to be obser	s, are s Glais art 1,	daily urth	P.M.	he the 's end; od "hi	y the Ship,	pern	begir
-	-	nemome	n squar	Least. 2	lbs.		0.0	0.0		0.0	:	22.2		d to lidered The	Jame	es, Fo	on; 3h thern	from t 50 year + is res ervation	ned b	ip, by	at the
Winn	- IND	from A	Pressure on square foot	Great.	lbs.		1.1	2.0		1.3	<i>i</i>	21		sidere e cons leter. f the r	ve the second points of the second point of	those I Tabl	M.; no imum ions be	the the that	ht. scertai	he sh Police	77 in.
		As deduced from Anemometers Osler's.		Р.М.	Z.	NNE. & ESE.	WSW, NNW,	N. & WSW.	W.& NNW.	WNW.&NNW	ble.	20	NOTES.	ometer is considered to be 159 feet above the mean barometer are considered to be coincident with those andard barometer. The observations are taken at The means of the readings of the barometer, the dry	ctions deductions deductions deductions	duced from	ad at 9h. A. m and mir	i by Mr. Gla reenwich, in prne in minc neteorologie	t to midnig hames is a the "Scor	on board terropolitan	The reading of the barometer decreased from 29.77 in. at the beginning of the week to egy (7) in. by 19.1. At. on the 14th; increased to 80.74 in. by 90.1. At. on the 14th; increased to 30.44 in by now on the 17th; decreased to 50.44 in by now on the 17th; decreased to 10.44 in the second to 10.44
1			General Direction.	A.M.	NE & NNE		S.&WSW.	NE NE WSW. &W.		W.& N.W.	Variable.	19		The height of the cistern of the barometer is considered to be 159 feet above the mean twel of the very five of the readings of the barometer are considered to be coincident with those of the Royal Society's finit glass standard barometer. The observations are taken at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry	Internometer, and the wet thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Glaisher, F.R.S., from five years' observations enthing 1845. December 31.—See Phil. Trans., part 1, 1848. The mean daily	dew point and degree of humidity are deduced from those mean daily values of the dry and web built thermometers by Glassher's Hypronetrical Tables, Fourth edition. The results we built thermometers by Glassher's Hypronetrical Tables, Fourth edition. The results	the most two way femperature or any as you are full minors or accounted to the control of the desired to the control of the full full full full full full full ful	temperature of the air is that defermined by Mr. Glaisher from the thermometrical observa- tions taken at the Royal Observatory, Greenwich, in the 50 years ending 1885, December 31. * In reading the 17th column it will be borne in mind that + is read "higher," and - "tower," than the average. The results of all the meteorological observations are to be understood as	applying to the civil day, or from middight to midnight.  The temperature of the water of the Thamas is assertained by the use of self-registering the removature of the water of the Thamas is assertained by the use of self-registering thermometers, suspended from the side of the "Sorpion". Police Ship, at the depth of about thermometers, suspended from the side of the "Sorpion".	The below the surface. The readings of these instruments are registered under this super- interdence of the resident inspector on board the ship, by permission of LieutCol. Henderson, R.E., C.B., Commissioner of Metropolitan Police.	ter decreas
-	Degree of Hu-	midity, complete Satura-	tion being	sented by 100.	-	69	74	62		89	73	18		sistern of reading y's flint with and	e wet th pplicatio ding 184	of hum ers by G	ry thern d from t	ir is that oyal Obsort column ie results	lay, or free from	esident Commi	barome
		Between mean tem- perature of	the day and mean tem-	the same day on an average of 50 years.*	000	4.7	- 2.9	- 7.1	+ 1.2	+ 3.0	- 2.5	17		The height of the cistern of the bar level of the sea. The readings of the of the Koyal Society's flint glass st 9h. A.M.; noon; 3h. P.M.; and 9h. P.M.	ser, and the servations en	and degree	is of the court	e of the an at the Ring the 17th	perature of ers, susper	of the r R.E. C.B	ling of the
Treeseast	PRENCI		. 1	Least. or	0%	9.00	5.0	5.3	0.0	0.4	2.1	191		of the Rohe Row	momet value vobser	point a	rvation ie resu	taker n readi the av	ying to	dence	in. by
Dept	The state of	Between Dew Point Temperature and	Air Temperature	Great-	0.61	21.3	16.5	19.8	0.03	19.4	17.9	15	1	level of t	daily year	dew	obse as th			intel	T. 53.67
1		Between	Air Te	daily (		9 6	8.1	8.8	6	10.3	9.8	14	- 38			in the	shortly w drops	ne day.	in the m. P.M.		
The state of the s		ter of	h, by		0.00	50.2	51.5	50.0	0.09	52.0 1	2.09	13	The state of the s			observed	vereast	Very fir	rain fell m 3h. 40		
		In the Water of the Thames at	Greenwich, by self-registering Thermometers	Highest, Lowest	0.4.6 A.4.6		54.4	54.0		54.5	54.1	12	HERE.			Solar halo observed in the	t the day	night.	wers of		
1 0000	EKS.	Lowest on the Grass, as t			0.04		26.4 5	29.9		38.0	32.3	=	ATMOSPHERE		A fine day.	lent. Sola	The sky became overcast shortly throughout the day. A few drops P.M.	riable till 4. Snow rd, and at	heavy sho	A fine day.	cloudy.
And and an or the state of the	ISKMOMEL	Highest in the sun, as shown by G	Thermo.	bulb in vacuo, Dalaced on the Grass.		131.3	2.101		121.7	112.0	116.2	10	AND		Generally overcast till night.	Light clouds generally prevalent. morning. Very fine.	A fine cloudless morning. The after 9b. A.M., and continued so throof rain fell between 2b. and 8b. P.M.	amount of cloud was variable till night. Very fine day, ally condless after 9b. P.M. Snow fell at Wolverhampton, ter, Norwich, and Bradford, and at many other places in filand Counties.	ndy throughout. Several heavy showers of rain fell in the ng, and it also rained almost continuously from 3h, 40m, P.M. P.M.		ery fine day, but generally cloudy.
o on the	S OF TI	Dew t	Mean	daily bu		87.5	41.3	33.2		46.2	41.5	6	SKY		vereast	ds gener	and con	nt of claudless a rwich, s	oughout.	variable throughout.	day, bu
1	EADING		Mean	daily o	47.0		40.4	45.5		56.5	50.1	00			erally o	ht cloud	ine cloude.	ally clo	ndy thrags, and	y varial	ery fine
1	IL		Range	day.	16.0		1.93	16.2		0.12	21.3	1			Gen	Lig	after 9	The Genera Leicest the Mi	Clou mornic	Very	A ve
		Dry.		Low-	0.67	38.3	36.3	40.4		46.8	41.1	9					Was			in the	
			1	est.	0,80	59.5	62.4	56.6	8.69	8-19	62.4	l us	HTX.				peratus			sitive :	sitive.
BARO-	METER.	Mean daily reading			in,	29.713	29.690	29.815	30.024	30.08	29.830	4	ELECTRICITY		1		trical ap			weak po	l weak po
	MOON.		of	Moon.		In	:	:	<b>D</b>	Apogee.	:	90	EL				The electrical apparatus was			A little weak positive sfternoon.	Occasional weak positive.
-			!	T. T.	1	15	16	17		8	1.	mus			14	15	16	17	. 18	19	. 02
		1871		MONTH AND DAY.	Mar.	MONDAY.	TUESDAY .	WEDNESDAY	FRIDAY	SATURDAY.	MEANS .	No. of Columns	DATE.	MAY.	SUNDAY . 1	MONDAY . 1	TUESDAY . 1	WEDNESDAT	TRURSDAY. 1	FRIDAT C	SATURDAY . 2

#### WEEKLY RETURN

#### BIRTHS AND DEATHS IN LONDON AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 21. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, MAY 27. [Price 1 1/2 1/2.

General Register Office, Somerset House, 29th May 1871.

DURING the week ending Saturday the 27th instant, 4662 births and 3498 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week was at the rate of 25

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the SEVENTEEN ENGLISH CITIES and Towns, in the order of their topographical arrangement, were as follow:—London 22 per 1000; Portsmouth 22, Norwich 21, Bristol 19, Wolverhampton 18, Birmingham 22, Leicester 22, Nottingham 17, Liverpool 32, Manchester 27, Salford 33, Bradford 22, Leeds 23, Sheffield 29, Hull 20, Sunderland 34, and Newcestleaupon Type 33. The fatal cases of small-pox in these towns, which is Newcastle-upon-Tyne 33. The fatal cases of small-pox in these towns, which in the two previous weeks had been 318 and 355, were last week 357; of these 257 occurred in London, 57 in Liverpool, 20 in Newcastle-upon-Tyne, 12 in Sunderland, 5 in Salford, 4 în Manchester, and one each in Birmingham and Sheffield. The annual death-rate in the week from small-pox was equal to 4 per 1000 in London, 6 in Liverpool, 8 in Newcastle, and 6 in Sunderland. The epidemic showed an increased fatality in Newcastle and Sunderland, but had slightly declined in the other towns. A considerable fatality from measles prevails in Birmingham, Manchester, and Salford.

In Southampton 16 deaths from small-pox were registered last week, against 13 and 17 in the two previous weeks; the annual death-rate from the disease last week was equal to 17 per 1000 persons living, and a return made to the Sanitary Committee of the town shows that there are 1000 cases in the town out of a population of less than 50,000, besides those in the workhouse. In Weymouth there were 9 deaths from small-pox last week, an increase of 3 upon the previous week, and showing a death-rate of 32 per 1000 persons living. The 14 fatal cases in Great Grimsby showed a decline of 4 upon the previous week, but gave an annual rate of 25 per 1000; no less than 122 deaths from small-pox have occurred in this town, with a population under 30,000, since the outbreak of the epidemic

about two months since.

In Edinburgh the annual rate of mortality from all causes last week was 30 per

1000 persons living, 36 in Glasgow, and in Dublin 21.

In Brussels 168 deaths occurred in the week ending 20th instant, and the annual death-rate was 44 per 1000. In Berlin during the week ending 25th instant 563 deaths were recorded, showing an annual rate of 36 per 1000. In Vienna the 465 deaths in the week ending 20th instant gave an annual rate of 39 per 1000.

The last return from Paris was received for the week ending 20th March, and for ten weeks a part of the population has been in a kind of delirium tremens following the famine, frost, terror, intoxication, fever, and excitement of the siege. Thousands of lives have according to report been already sacrificed by disease, slaughter, and fire; the next return must be terrible; let us hope that vengeance may now cease; and that better uses may be found for the French artizan to whose ingenuity and industry the whole world owes so much, than shooting him.

In the City of New York 508 deaths were registered in the week ending

6th instant, and the equivalent annual rate of mortality was 28 per 1000.

In Bombay the deaths registered during the week ending 25th ultimo were 356, and the mortality was at the annual rate of 23 per 1000. In Madras 264 deaths were registered in the week ending 14th ultimo, showing an annual death-rate equal to 32 per 1000 of the population.

The population of London happens to coincide so closely with the estimated number that no change is necessary in the calculation either of the rate of mor-

[21.]

tality or of the density. The rate of mortality for the week by the numbers estimated to the *middle of the year* from the enumerations of 1841-51-61 is 22·43; by the estimate for the same date corrected from the unrevised figures of the last census is 22·41. The density for the middle of the year as hitherto published is 41·78 persons to an acre, and the corrected density is 41·83 persons to an acre. The mean population for the *middle of this year* is 26,772 persons to a square mile; 10,337 to a square kilometre.

In London 1926 BIRTHS and 1401 DEATHS were registered last week. After making due allowance for increase of population, the births were 241 below, while the deaths exceeded by 15, the average numbers in the corresponding week of

the last ten years.

Zymotic diseases caused 426 deaths last week, including 257 from small-pox, 23 from measles, 28 from scarlet fever, 2 from diphtheria, 48 from whooping-cough, 23 from different forms of fever (of which 7 were certified as typhus, 8 as enteric or typhoid, and 8 as simple continued fever), and 12 from diarrhoea; thus to the seven principal diseases of this class 393 deaths were referred last week, against

347 and 413 in the two preceding weeks.

The fatal cases of small-pox in London, which in the two previous weeks had been 232 and 267, were last week 257; in the seven weeks ending last Saturday the weekly numbers have averaged 264. In eight permanent and temporary hospitals for this disease 112 deaths were recorded last week, of which 34, 28, and 34 occurred respectively in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths among their proper districts, it appears that 21 deaths belonged to the West group of Districts, 65 to the North, 22 to the Central, 51 to the East, and 98 to the South. The decrease was largest in the North Districts, while the numbers showed a slight increase in West and Central London. The greatest fatality from small-pox was shown last week in St. Paneras, Shoreditch, Bethnal Green, Southwark, Walworth, Clapham, Battersea, Peckham, and Camberwell. The deaths in Battersea sub-district, which in the three previous weeks had been 14, 13, and 13, declined to 10 last week, which however showed an annual death-rate equal to 10 per 1000 of the enumerated population.

To different forms of violence 42 deaths were referred last week; of these 34 were accidental, including 13 from fractures and contusions, 3 from burns and scalds, 5 from drowning, and 12 from suffocation, of which 9 were of infants under one year of age. Four of the deaths from fractures and contusions were caused by horses or vehicles in the streets: all were of adults, two carmen who fell from their cart or van, a milkman who was run over by a dray, and the widow of a

dairyman who fell from a cab.

Dr. Frankland, in his report upon the quality of the Metropolitan Water Supply during May, dwells upon the following points:-Water was delivered by the Lambeth Company containing fungoid growths and moving organisms; by the Chelsea and Southwark Companies slightly turbid, and containing moving organisms, some of which in the Southwark Company's water were visible to the naked eye; the samples drawn from the mains of the other companies were clear and transparent. The general quality of the Thames and Lea waters showed a marked deterioration, due doubtless to the recent heavy rains; the proportion of organic matter showed an average increase of 70 per cent. upon the previous month, and was larger than in any month since January 1870. The best sample of Thames water was supplied by the West Middlesex Company, the worst by the Southwark and Vauxhall Company. The New River water contained only half as much organic matter as the Thames waters. The Kent Company's water, drawn exclusively from deep chalk wells, alone maintained a high degree of purity as regards organic matter. The result of the application of Clark's softening and purifying process to the Grand Junction Company's water during the past 12 months has on the average reduced the total solid impurity to considerably less than one half, the organic elements to less than seven ninths, and the hardness to less than one fourth of the original amount. The cost of the application of this process to the whole Water Supply of London would be far more than covered by the saving of spap thereby effected. Dr. Hill reports that the Birmingham water was more turbid but softer than it was last month, and that the organic nitrogen was again The water supplied to Manchester on 19th instant was slightly turbid when drawn, but was only half as hard as the London Grand Junction Company's water after the latter had been submitted to Clark's softening process.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.86 in.; the highest reading was 30.17 in. on Sunday morning, and the lowest 29.64 in. at noon on Thursday. The mean temperature of the air was 56°.7, or 2°.1 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 79°.5 on Thursday, the lowest night temperature 38°.8 on Monday; the entire range of temperature in the week was, therefore, 40°.7. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 151°·1 on Wednesday. The mean temperature was below the average on Monday, Friday, and Saturday, but showed an excess on each of the other days; on Thursday the mean temperature was so high as 67° 2, and 12° 3 above the average, while on Saturday it had fallen to 50° 5, or 4° 9 below the average. The difference between the mean dew-point temperature and air temperature averaged 9° 1. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 55° 6 last week. The mean degree of humidity of the air was 72, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air in the week averaged 9 miles per hour. Rain fell on Thursday and Saturday to the amount of '22 of an inch.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 195,338 cubic metres, and at Barking 253,402 cubic metres, equiva-

lent to about as many tons by weight.

ERRATUM.—In the 10th line of page 162 in the "Weekly Return" for the week ending Saturday, 20th instant, for "2669 persons to a square mile," read "26683 persons to a square mile,"

The REGISTRAR GENERAL has to acknowledge the courtesy of the London Water Companies, who have furnished him with the average daily quantity of Water supplied for the month of April 1871: thus, according to their account, 103,593,573 gallons or 470,673 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 96.9 decalitres, rather less than a ton by weight, to each house, and 13.7 decalitres (=30.1 gallons) to each person.

rather less than a ton by weight, to each house, and 13.7 decalitres (=30.1 gallons) to each person.

According to returns of the London Water Companies made to the Select Committee on East
London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about
82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying
this proportion to the total quantity supplied daily in the month of April 1871, it may be
estimated that about 85,133,198 gallons were probably used for domestic purposes, or about 24.7
gallons per day for each inhabitant. This proportion no doubt varies from month to month,
but the Registrar General has no means of giving a more exact estimate.

Companies.		Houses, &c.	in Gallons (in Manufactures purposes other	upply of Water cluding that for and for various or than for do- mption) during
	MARCH 1871.	APRIL 1871.	MARCH 1871.	APRIL 1871.
TOTAL SUPPLY	484,969	485,734	101,557,556	103,593,573
From Thames	224,689	225,078	53,825,041	54,783,246
	260,280	260,656	47,732,515	48,810,327
THAMES. Chelsea West Middlesex Southwark and Vauxhall Grand Junction Lambeth	27,670	27,670	7,868,600	8,173,900
	41,747	41,886	8,832,296	9,054,474
	78,321	78,364	16,429,172	16,430,892
	30,929	30,929	10,855,102	11,016,814
	46,022	46,229	9,839,871	10,107,166
LEA AND OTHER SOURCES.  New River East London Kent	118,505	118,669	20,982,000	22,149,000
	101,852	101,852	19,806,800	19,352,700
	39,923	40,135	6,943,7,15	7,308,627

Note.—The Return for April as compared with that for March shows an increase of 785 houses, and an increase of 2,036,017 gallons of water supplied daily.

#### ANALYSIS OF METROPOLYTAN WATER SUPPLY FOR MAY.

Sire,

Royal College of Chemistry, 26th May, 1871.

I have the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the Metropolis during the month of May, and I append also the results yielded by the Grand Junction Company's water after the application of Clark's process

of purification, together with the results of the analysis of the Birmingham water supply furnished by Dr. Hill, and of the Manchester water supply collected by Dr. Roscoe at Owen's College.

The Lambeth company delivered turbid water containing fungoid growths and moving organisms. The water delivered by the Chelsea and Southwark Companies was slightly turbid, and contained moving organisms, some of which were visible to the naked eye in the Southwark Company's water. The remaining samples of metropolitan water were clear and transparent when drawn from the

companies' mains.

Since my last report a great deterioration has occurred in the quality of the river water delivered in London, consequent, doubtless, upon heavy rains in the Thames and Lea basins at the beginning of the month, which washed large quantities of refuse animal and vegetable matters into these rivers. The waters drawn from the Thames were more polluted by organic matters than they have been since January 1870, and they contained, on the average, upwards of 70 per cent. more of organic elements than the amount present in them last month. The best sample of Thames water was that drawn from the West Middlesex Company's main, and the worst that delivered by the Southwark and Vauxhall Company.

The water obtained from the river Lea, and delivered by the East London Company, showed a

similar increase of organic impurity.

The New River Company's water, which is derived partly from the river Lea and partly from chalk springs and wells, has also deteriorated in quality since last month, nevertheless it contained only half as much organic matter as the Thames waters.

The Kent Company's water alone maintained a high degree of purity as regards organic matter, This water is drawn exclusively from deep wells in the chalk, and it contained only one fourth as much organic matter as that present in the New River Company's water, and only one eighth as

much as that contained in the rest of the metropolitan waters.

Having now applied Clark's softening and purifying process to the Grand Junction Company's water for the past twelve months, I have to report that this simple and admirable process has, on the average, reduced the total solid impurity to considerably less than one half, the organic elements to less than seven ninths (although the softened water always stood at least 24 hours in a London cistern before the sample was taken, whilst the unsoftened water was drawn direct from the main), and the hardness to less than one fourth of the original amount. The application of this process to the whole water supply of London would be a great public boon, whilst its cost would be far more than covered by the saving of soap thereby affected.

Dr. Hill reports that the water supplied to Birmingham was more turbid but softer than it was

last month, and that the organic nitrogen continues high.

The water supplied to Manchester on the 19th instant was slightly turbid when drawn from the main. It was only half as hard as the Grand Junction Company's water after the latter had been submitted to Clark's softening process.

The Registrar General, &c., &c.

I have, &c. E, FRANKLAND.

#### RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

Companies.	Date and Place of Collection,	Temperature in centigrade degrees.	Total Solid Impurity.	Organic Carboon.	Organic Nitro-	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sew- age or Animal Contamina- tion. (Esti- mated.)	Chlorine.	Total Hard-
THAMES. Chelsea	8th May, Cab Rank, Horse Guards	12.5	28.60	*233	.037	°000	-207	*244	1750	2.00	20.6
West Middlesex -	{ Sth May, Cab Rank, Portland-road }	13.8	27.40	•213	.033	.000	•198	*231	1660	1.97	20.3
Southwark and Vauxhall	{ Cab Rank, St. George's Church, Borough. }	14.3	28.80	•264	*045	•000	*213	*258	1810	1.97	20.6
Grand Junetion -	9th May, 14, Lancaster Gate, Hyde Park.	11.2	28*26	*248	•033	•000	*200	•233	1680	1.97	20.6
Ditto, softened by Clark's process -	9th May, 14, Lancaster Gate, Hyde Park.	11.2	14.34	·181	•033	*001	*219	*253	1880	2.00	6.7
Lambeth	{ Cab Rank, Lambeth-road }	13.0	28*60	*244	*033	.000	•231	*264	1990	1.97	20.6
OTHER SOURCES.  New River	{ Cab Rank, Tottenham- court-road. }	13.0	26.76	*113	.022	•000	*208	*230	1760_	1.65	20.6
East London	{ Royal Hotel, Mile-end-	13.7	26.00	*238	029	*002	.177	208	1470	2.16	18.5
Kent	8th May, Deptfd. Bdge. Police Stat.	13.3	39:38	*023	•011	.000	*362	*373	:300	2.40	28.7
Birmingham*	{ th May, Birmingham Waterworks }		22.7	•180	*051	.003	•221	274	1917	1.67	15.0
Manchester	{ From main at Owen's College }	-	6*68	*136	029	.002	.038	•064	80	1.07	3.5
Column 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12

Note.—For directions to read this table see note to similar table at page 138, Weekly Return, No. 17. Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

LABLE 1. LONDON.-Births and Deaths Registered LAST WEEK, and in the TWENTY-FIRST Week of Ten previous Years.

Total Births  Males  Females .	1861 1826 892 934	1862 1919 951 968	1863 1888 961 927	1864 1966 1030 936	1865 1876 950 926	1866 1985 1022 963	1867 1996 1016 980	1868 2096 106 <b>7</b> 1029	1869 1924 961 963	2219 1134 1085	Average of 10 Weeks.  1969.5 998.4 971.1	1926 917 1009
Total Deaths  Males Females	1237	1209	1259	1234	1249	1528	1118	1252	1276	1239	1260·1	1401
	626	633	645	642	660	805	594	654	658	653	657·0	705
	611	576	614	592	589	723	524	598	618	586	603·1	<b>6</b> 96

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. L()NDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	Mar. 4.	Mar. 11.	Mar. 18.	Mar. 25.	Apr.	Apr. 8.	Apr. 15.	Apr. 22.	Apr. 29.	May 6.	May 13.	May 20.	May 27.
TOTAL Deaths	1591	1601	1576	1665	1564	1493	1722	1578	1469	1522	1341	1486	1401
Deaths under 5 years of age - Deaths 5—20 Deaths 20—40 Deaths 40—60	643 174 237 259	652 162 244 242	616 150 259 251	643 151 279 276	613 139 251 241	573 157 262 237	670 174 291 262	583 167 277 244	582 158 248 226	568 183 276 253	519 142 232 189	594 152 260 214	485 153 270 227
Deaths 60—80 Deaths at 80 years & upwards	215 63	238 63	256 44	264 52	271 49	197 67	249 76	258 49	212	193 49	213 46	207 45	217 49
Deaths from Small-pox , , , Measles - , , , Scarlet Fever - , , Diphtheria - , , , Whooping-cough , , , Typhus fever - , , , Enteric (or Ty-phoid) fever - , , , Simple Contafever , , , Diarrhœa ,		194 14 54 9 67 5 15	185 13 33 3 55 10 16 17 9	205 10 36 6 48 12 14 6	192 13 33 6 41 7 13	214 15 37 6 53 8 11 10	265 6 40 4 66 8 14	276 13 27 4 44 11 15 7	261 12 30, 7 45 10 13	288 17 29 4 36 7 14 13	232 16 35 2 25 11 9	267 11 28 8 43 9	257 23 28 2 48 7 8
", ", Simple Cholera - ", ", Phthisis - ", ", Bronchitis - ", ", Preumonia - ", ", Heart Disease -	13 1 149 174 92 63	160 176 89 59	178 209 77 67	205 224 94 79	162 193 72 69	181 149 67 81	182 189 84 66	171 145 80 70	158 133 72 64	183 123 58 66	1 154 108 50 71	170 100 62 53	154 95 52 57
Mean Temperature of the Air	45.7	46.3	41.7	47.1	43.8	43.1	48.3	50.0	50.7	49.7	47.6	50.1	56.7
Mean Temperature of the Water of the Thames	43.8	45.2	45.2	44.4	47.5	45.7	47.0	50.8	51.9	52.7	53.2	52.4	55.6
Humidity of the Air	79	78	81	82	75	76	81	89	85	74	76	73	72
Rain-fall in inches	0.11	0.47	0.58	0.02	0.03	0.01	0.36	1.75	0.80	0.20	0.12	0.16	0.22

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Cecles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Cecles, near Manchester; G. V. Vernon, Esq., F.R.S., F.M.S., Gld Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

DUBLIN -

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 27th day of May 1871, in the following large Towns.

	CITIES	Area	Estimated Population	Persons	BIRTHS registered	DEATHS registered		ATURE OF AHRENHE		THE AIR.	RAIN	FALL.
1	AND	in	in the	to an	during the	during the	/:		Weekly	GRADE.)		
ı		Acres.	middle of the Year	Acre.	Week ending	_	Highest during	Lowest	Mean of the	Weekly Mean of	In	In
I	BOROUGHS.	. Acres.	1871.*	(1871.)	27th May	27th May	the	the	Daily	the Daily	Inches.	Centi-
l					1871.	1871.	Week.	Week.	Mean Values.	Mean Values.		
I	Total of 20 Towns)	010 001	W 000 001	24.4	4000	0400	HOLE	02.0	PF. W	13.16	0.85	1.00
ı	in the UNITED KINGDOM -	213,281	7,336,961	34.4	4662	3498	79.5	37.9	55.7	13.10	0.75	1.90
ı	LONDON	77,997	3,258,469	41.8	1926	1401	79.5	38*8	56.7	13.72	0.22	0.56
I	PORTSMOUTH	9,513	125,464	13.2	80	54	77.2	42.0	58.1	14.20	0.14	0.36
ı	Norwich	7,472	81,787	10.9	58	. 33	74.0	38.5	54.3	12.39	0.26	0.66
ı	BRISTOL	4,688	173,364	37.0	119	64		_				·,
ı	WOLVERHAMPTON -	3,387	74,438	22.0	69	25	79.0	38.3	55.6	13.11	1.75	4.44
١	BIRMINGHAM	7,831	378,574	48.3	233	161	79.0	42.2	55.9	13.28	1.70	4.32
I	LEICESTER	3,200	101,367	31.7	78	42	79.2	40.7	55.8	13.22	0.97	2.46
ı	NOTTINGHAM	1,996	90,480	45*3	53	29	79.5	40.4	56.0	13*33	1.26	3.50
١	LIVERPOOL - \ -	5,108	526,225	103.0	294	321	75.5	45.1	55.1	12.83	0.84	2.13
I	MANCHESTER	4,486	379,140	84.2	277	198			-		_	
ı	SALFORD	5,172	123,851	23.9	109	. 79	78.9	37.9	56.1	13:39	1.12	2.84
ı	BRADFORD	6,590	148,030	22.5	99	63	76.5	43.0	56.5	13.61	0.76	1.93
ı	LEEDS	21,572	266,108	12'3	176	118	77.0	42.0	54.8	12.66	0.73	1.85
ı	SHEFFIELD	22,830	255,247	11.5	174	144	78.0	42.0	56°6	13.66	1.13	2.87
ı	HULL	3,562	135,195	38.0	102	. 52		-	-		4	
ı	SUNDERLAND	3,306	103,037	31.2	. 50	68						
ı	NEWCASTLE-ON-TYNE	5,336	136,293	25.5	196	87	70.0	41.0	51.8	11.00	0.48	1.22
۱	EDINBURGH	4,427	179,944	40.6	133	103	72.7	44.0	55'8	13.22	0.30	0.76
ı	GLASGOW	5,063	477,627	94.3	351	327	75.6	43.5	57.1	13.94	0.53	0.28
ı	DUBLIN	9,745	322,321	33.1	175	129	69.9	39.2	54.3	12.39	0.02	0.13
		· · · · · · · · · · · · · · · · · · ·							_			

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d ultimo, will probable before the middle of the year, and will then be substituted for these estimates.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Weel ending Saturday the 27th day of May 1871.

1 2	1000	Chang D	attituay	the 27	in da	, 01 1	izay i	071.						
	ANNUAL				Th	e Dear	rns reg	istered	in the	Week in	iclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhes.	Violence.	Inquest Cases.	In Public Institutions.
Total of 17 Towns -	24	2939	619	547	357	103	65	6	75	78	41	90	156	516
LONDON	22	1401	262	266	257	23	28	2	48	23	12	42	63	292
PORTSMOUTH	22	54	17	7	-	-	-	~ '	2	2	,	1	3	8
Norwich	21	33	8	9	-	-	-	-			2	1	2	4
BRISTOL	19	64	18	13	-	1	-	-	1	5	4	1	3	13
WOLVERHAMPTON -	18	25	3	11	en.	1	-	_	-	1	-	-		7
BIRMINGHAM	22	161	37	22	1	25-		2	5	3	1	10	20	.18
LEICESTER	22	42	15	. 9	-	1	,2	-	1.	1	3	1	1	4
NOTTINGHAM	17	29	3	6		-		-	-	2	-	2	5	3
LIVERPOOL	32	321	71	. 64	57	10	9	_	7	12	6	6	16	59
MANCHESTER	27	198	42	45	4	12	3	_	1	10	2	4	13	37
SALFORD	.33	79	20	6	5	15	2	-	2	2	-	1	1	-3
BRADFORD	22	63	16	. 9		-	2	1	-	. 1	2	4	6	′5
LEEDS	23	118	31	23	-	3	1	-	1	8	3	4	7	12
SHEFFIELD	29	144	42	19	1 -	6	10		4	4	4	6	9	20
HULL	20	52	. 8	10		. 4.	2.	- m -	_	2	_	3	8	7.
SUNDERLAND	34	68	14	8	12	-	5	-	2	1		2	2	9
NEWCASTLE-ON-TYNE -	33	87	12	20	20	2	1	1	1	1	2	2	2	15
			~											

TABLE 5 .- DEATHS in LONDON Registered in the TWENTY-FIRST Week of the Year 1871.

TABLE 9:	EATHS	111 12	ONL	Z	110	grot	CIC	1 111	the I WENTY-FIRST WE	CR OI (	ile I	cai	101	1.			
	eek 31-70.	In the Week ending Saturday, May 27, 1871.  Deaths of Persons of the Ages								he eek 31-70.		In t	he W				
	s of thrst W	ALL Under S   S   S   S					of			Averages of the Twenty-first Week the 10 years 1861-70		Deat	ths o	f Per Age	sons	of	
CAUSES OF DEATH.	erage nty-fi 10 yes	ALL	Un	der	40.	60.	80.	and	CAUSES OF DEATH.	erage nty-fi	ALL	Une	ler	40.	99	. 1	and
	Twe	AGES. Mean		0.	under	under	under			Twe in the	Mean	20	-	under	40 and under	60 and under 80.	rds.
	54°1	Tem.	5.	-20.	and	and	and	Years upwards		54.1	Tem.	-5.	-20.	20 and	and (	and (	y Years
Mean Temperature -		-	0	5-	20	40	9	08	Mean Temperature -		-	0	- OX	-		9	98°
ALL CAUSES SPECIFIED CAUSES	1260.1	1401 1396		153 152	270 270	227 227	217 216		9. Stricture of Intestines -	1·1 •6 5·1	- 1 - 8	- 2	-	1 - 2	2	- 2	=
I. ZYMOTIC DISEASES.	1201 2	1000	102		-			10	11. Stomach Disease, &c 12. Pancreas Disease, &c 13. Hepatitis -	3°6 4°3	8 3 13	- 1	=	-	7	1	-
ORDER 1. 1. Small-pox	19.0	257	77	73	84	21	2	-	14. Jaundice	15.4	13	~ î	ĩ	3 -	6 -	2	-
3. Scarlet Fever (Scarlatina) 4. Diphtheria – – –	39°0 45°9 7°1 1°6	23 28 2	22 17	9	1'	1	ĩ.	1111	ORDER 5.	- 1.2	3	-	2	-	1	-	-
6. Croup	1.6	9 48	9 47	- 1	-	=	-	-	2. Ischuria – – – – 3. Bright's Disease (Nephria) 4. Diabetes – – – –	1.9	9		1	2	3	3 2	=
8. Typhus — — — — — — Enteric or Typhoid Fever — Simple continued Fever —	45.2	7 8 8	- 3 2	3 1	3	1 1	1 2 1	1 1 1	5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	7.8	1 1 3	E	-	-	- 2	1 1 1	Ē
9. Erysipelas 9. Puerperal Fever (Metria) 1. Carbuncle	6.1	6	- 2	1	6	=	1 1		ORDER 6.	.3			_	_		_	
2. Influenza	1.7	2	- - 8	-	1	-	1	3	1. Ovarian Dropsy 2. Uterus Disease, \$c ORDER 7.	4.7	3	_	-	-	2	1	-
4. Diarrhœa – – – – – – – – – – – – – – – – – – –	15.4	12 - 2	1	-	-	1 - 1	-		1. Synovitis (Arthritis) - 2. Joint Disease, &c	4.1	- 6	ī	3	1	-	-	-
7. Remittent Fever 8. Rheumatism 9. Other Zymotic Diseases - ORDER 2.	6.4	8	Ξ	3	2	2	1	-	ORDER 8.	1.3	2		-	1	1	-	-
ORDER 2.	7:1	9	9	-	-	-	-	-	2. Ulcer	- '9	- 1	1 -	-	Ξ		-	-
1. Syphilis	-8	-	Ξ	-	1 -	=	- 2	1 7 1	IV. DEVELOPMENTAL DISEASES.						ı		
ORDER 3. 1. Privation 2. Want of Breast-milk -	6	ī	-	-	-		-	-	ORDER 1. 1. Premature Birth	19.6	31	31 2	ī	-	/-	-	-
8. Purpura and Scurvy - 4. Alco - a Del. Tremens - holism b Intemperance -	6.8 1.5 2.3	6	4 2 -	1	-	2	1 1	-	2. Cyanosis 3. Spina Bifida 4. Other Malformations -	2·1 1·1 18·5	3 1 - 15	1 - 15	-	-		=	-
ORDER 4	1.8	1	1	-		1		-	5. Teething ORDER 2.			15					
L. Thrush 2. Worms, &c CONSTITUTIONAL DIS.		-	-	-	=	-		_	1. Paramenia 2. Childbirth (see Puerperal) Fever)	6.0	6	-	1	5	-	-	-
ORDER 1.  1. Gout	2.1	_	_	_	_	_	_	-	ORDER 3. 1. Old Age	44'8	42		-	-		24	18
2. Dropsy	12.8 26.5	12 44	7		7 -	1 23	13	1	ORDER 4.	57.8	36	30	_		2	4	
5. Mortification	3.2	5	-	-		1	1	3	1. Atrophy and Debility - V. VIOLENT DEATHS, &c.								
1. Scrofula	8.3 17.0 176.4	10 15 154	13 8	1 14	1 88	39	- 5		ORDER 1. (Accident of Negligence.)								
4. Hydrocephalus III, LOCAL DISEASES.	35.8	29	26	8	=		-	_	1. Fractures and Contusions 2. Wounds 3. Burns and Scalds	18.0 1.3 4.9	13 - 3	- 3	-	3 -	6	3	1
ORDER 1.	16.8	23	-12	3	3	3	2	-	4. Poison	7.0 6.0	5 12	9	8	2	- 1	-	-
2. Apoplexy	33·7 24·9 2·0	88 34 4	5 -	=	2 2	6	14 21 2	5 -	6. Suffocation 7. Otherwise	2.4	1		1	=		-	
5. Chorea	7 · 4 45 · 6	1 44	43	-	-	1	-	-	ORDER 3. (Homicide.)	2.1		ļ	,				
ORDER 2.	16.5	25	2	3	5	5	8	2	1. Murder and Manslaughter ORDER 4.		2	1				-	
1. Pericarditis	1.8 2.3 52.2	1 2 57	-	3	12	18	2 23	- 1	(SUICIDE.)  1. Wounds {Gunshot - Cut, Stab -	1.2	- 2		-	ĩ	-	-	ī
	7.5	5 95	4	-	-	-,	1	-	2. Poison	1.4	1 2		-	1	1	-	Ē
ORDER 3.  1. Laryngitis	62'3	95 6 52 10	21 2 32	1 - 5	2 2 3	22 1 7	39	10	4. Hanging	*8.	1		-	-	1	-	
5. Asthma	13.8	10	=	ī	2	7 3 3	7	-	ORDER 5. (EXECUTION.) 1. Hanging					,,			
1. Gastritis	2.6	1 5	ī	-	1 4	1	2	1					-		_		-
1. Gastritis 2. Enteritis	8·1 2·1	1 5 8 3 3		2 -	2	2 2	- 1	1	Violent Deaths (not classed) Sudden Deaths (Cause un-	1.8			-	-	_		-
6. Hernia – – – – 7. Ileus – – – – 8. Intussusception – –	2·4 2·9 ·5	1 4 1	2	-	- 1	-	2	1 -	Causes not specified or ill-	6.9	5	3	1	-	-	1	-
			_	-			1	1		1	1		- 1		_		

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

### 178 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

	1	18	20			•	The :	DEAT	HS Tel	ristere	d in t	he We	eek in	_			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS during the Week.	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhes.	Violence.	Inquest Cases.	In Public Insti-
LONDON	2,803,989	1926	1401	262	266	257	23	28	2	48	7	8	.8	12	42	63	292
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	458,125 618,210 383,321 571,158 773,175	255 442 165 437 627	194 365 145 275 422	32 50 26 63 91	47 66 33 52 68	11 108 10 31 97	2 3 - 6 12	5 9 3 3	1	5 18 4 9 12	4 2 -	- 3 1 1 3	- 2 1 - 5	1 2 - 3 6	7 8 8 9	17 10 12 14 10	24 128 27 51 67
WEST DISTRICTS.  St. Mary Paddington WH	39015 38769 51910 18198 5415 19104 15539 21654 19889 21886 19773 12885 55113 87483 30730 10753 13966 10667 17426	37 14 31 13 6 17 17 12 11 18 5 4 17 27 9	14 12 24 9 13 12 16 9 11 2 26 15 12 2 4 6	212211221311834 1231	3363-4561-1-8211-2	11111121 1311,111	1	111771711171111111111111111111111111111		111111111111111111111111111111111111111	111111111111111111111111111111111111111		mount danger	necontration of	111111111111111111111111111111111111111	2128-12411	TOTAL SHARE THE STATE OF THE PARTY OF THE PA
NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square - Rectory Marylebone WH - St. Mary Marylebone H Christchurch Marylebone - St. John Marylebone - Hampstead WHH - Regent's Park Pancras - Tottenham-court wH - Gray's Inn Lane H Somers Town - Camden Town W - Kentish Town W Islington West* WHHH   Islington West* WHHHH   Islington West* WHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	29952 15090 26692 22493 34913 34913 34913 34927 29371 27803 389099 23286 44317 75442 79899 5483 24265 5483 24265 31481 15458	10 6 13 16 13 29 15 29 15 10 30 12 40 72 66 7 2 15 28 14	15 14 5 16 10 46 12 15 11 16 15 19 42 38 4 3 11 61 12	1 35 3 4 6 7 1 1 2 4 -	3 - 52442 I 3444133 440 II 398	35 35 35 37 92 1 31 2	1	1 22 1 - 1	THE PERSON OF STREET	11121 211211 31 11 31	111111111111111111111111111111111111111	1 2	THE THE PARTY OF T	HOLLE OF THE PROPERTY OF THE P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 3 1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3 7 7 7 8 3 5 4 5 8 16 8 2 1 40 4
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH St. Giles North Long Acre Charing Cross WH St. Mary-le-Strand St. Clement Danes H St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hill Goswell-street City-road WHHL Whiteross-street Finisbury St. Botolph East London HH Cripplegate St. Selbolph East London HH Cripplegate St. Selbolph East London HH Cripplegate St. Sepulchre H St. Bride W Castle Baynard Christehurch Queenhithe Allhallows Barking Broad Street Broad Street Allhallows Barking Broad Street Broad Street Allhallows Barking Broad Street Broad Street Broad Street Allhallows Barking Broad Street	17892 19483 17201 11618 11071 110846 15207 19903 12047 12012 17250 17250 17250 16290 14778 12931 20990 19997 11750 18995 1762 9070 8659 11649	7 15 7 5 3 1 8 6 6 11 3 8 6 6 7 9 8 16 10 8 5 5 6 - 1 - 2	493 8283 1217 567244694 379213 - 25	111 4 12 H 33 12 32 1 HH 1 F 1 H 1 H 1 H 1 H 1 H 1	14-2-2-2-3-4-1-3-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1 1			digital services region	1	1			annan afranan inan	THE COMPANY OF THE CO	6 1 2 1 1	131 Crain Soften Han Bill 196.

Note,—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely, W—Workhouse; W—Hospital; W—Lunatic Asylum; w—A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

## Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 179

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district aturday, 27th May 1871.

aturday, 27th May 1871.				_		_											
_	P	during	during	54			The D	EATHS	regis		in the		k inel	ude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS the Week.	Total DEATHS d the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever,	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Iolywell Shoreditch	17813 19188 26516 25777 23260 17310	11 16 16 15 21 16	2 5 11 11 5 6	1 2 5 4 - 2	1 3 1 - 1	191111	111111	1	Litia	111111	7,111111	11111	11111		3117	1	12247 - 1 -
Hackney-road Freen, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	28 46 16 15	8 21 11 6	3 5 1 2	3 / 1 1	3 4 3	1111	1	1111	1 -	1111		1111	1141	1111	- - 1	7
artillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	1 5 11 2 4 6 1	1 7 10 6 16 7 3	1 1 2 1 1	31 2	222	1111111	111111	1111111	1111111	211111	1111111	111111	1111111	1 1 1 1 1 1 1 1	3	13
t. Mary St. George East	18181 21015 9695	11 12 2	13 6 11	4 2 1	1 1 5	1 -	4.	111	1.1.1	1		-	-	- 1	- 1	-	- 6
Shadwell $W$	12537 16874 27161	5 11 17	2 5	1 1 2	1 -	1 1		1.1.1	1,13		-	-	-	1 -	1	1 -	1 -
Mile End Old Town West Mile End Old Town East WwH -	\$3747 \$9317	23 35	21 25	5	4 4	3	1	- :	1.1	1 2		1 -	-	1	-	.1	- 5
Bow WwHLt	35667 43529	55 36	32 20	4	12 5	3 1	=,/	-	1.6.	ī	-	-	-	1 -	3	1 4	8
hristehurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	12 8 14 15 9 11 25	2 4 18 7 9 11 24 8	1 -2 3 1 8 9	1321223	1 5 2 1 7	111111111	1	1111111	1 1 - 1 - 1 - 1 - 1	111111	1	1	1	1111111	111	1
st. Olave Southwark H	7663 11393 16696 16505 25154 24502	9 9 19 34 10	9 8 8 3 16 6	1 2 2 6 3	1	1 2 - 2 1	1 - 1 -	11111	11111	111/11		11111	111111		8 1 - 1 - 1 -	3 1 - 1	8 3 1
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	5 25 16 27 21 15 19 4	6 11 10 23 10 10 46 5	2 3 2 4 5 3 2 1	- 2 6 1 2	1 1 4 3 2 35	1 2 -	1 1 2 -	1		111111	1111111	1	1	1	1 1 1 1 1	- 85 -
Clapham HL	20894 19600 18346 6481 10082	17 40 18 5 4	11 26 7 1 2	4 4 2	4 3 8 1	10 - -	ī -		1111	1 -	11111	1111	11 * 11	1	11111	11111	221-
Dulwich – – – – – – – – – – – – – – – – – – –	1723 21297 28135 20333	18 30 21	1 12 21 20	2 2 2 8	- 4 3 1	5 7	1	1111		1			1111	1111	- 1 - 1		1411
St. Paul Deptford	37834 8139 21696 18306	31 5 6 22	17 2 11 -3 <sub>8</sub>	5 - 2 1	3 2 3 -	1 -	1 -	1		1 2 -	1111	1 -	ī -	1	- 1		1 2
Eltham	3009 11003 7872 10595	6 4 14	2 7 2 8	1 2	6 2	1111	1	1 1 5 1	1111	1111	1011		- <u>-</u>	ī -		1711	1
Charlton H	9276 : 22919 18776 11332 13170	3 10 12 15 18	2 4 3 3 3 3	- 2 -	1 1 1	11111	11111	11111		1	11111	1	11111	1-1-1-1	11111	11411	FILE

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.
The Strand - , Tottenham-court sub-district.
Lendon City - , Hackney sub-district.

Do. do. - , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.

London City , , Mile End Old Town Eastern sub-dist. and
Bow sub-district.

Bow sub-district. Stepney -

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL UBSERVATORY, GREENWICH, during the Week ending Saturday, 27th May, 1871. [Under the Superintendence of the Astronomer Royal.]

1	_						2/1000/	togn	1	-00	- Cattorio
		-		Ozone.	::-	:	::::	:	56		mean those A.M.; A.A., inve mean inve inve inve inve inve inve inve inv
	RAIN.	0	Gauge whose receiving		Inches 0.00 0.00	0.00	0.00	Sum 0.22	25		ove the nat the nat the nat the cter, the ed into in the near the increase this increase the near the
		Robinson's.	Amount of	Movement of Air each day,	Miles. 138 251	265	166 204 289 155	Sum 1468	504		idered to be 159 feet above the mean considered to be coincident with those readings of the barometer, the dry readings of the barometer, the dry flasse times are to buverted into mean d by James Glaisher, F.R.S., from five L.Twar, part, 1, 1845. The mean daily hose mean daily values of the dry and Tables, Fourth edition. The results these mean daily values of the dry and Tables, Fourth edition. The results these mean daily values of the dry and Tables, Fourth edition. The results these means are stribited in column, 7, include the results being applied to each. The average star from the thermometers, as determined by one being applied to each. The average star from the thermometerial observation is being a series of the soft-registerine orpion." Police Ship, as the depth of enustraments are registered under the enustraments are registered under the enustraments are registered under the fire ship, by permission of Lieut-Col. Police.  1961 at the beginning of the week to Gin. at the beginning of the week to Gin. at the 27th; and was
ı		ers.		Mean of 21 Obs.	lbs. 0.0 0.3	0.4	0.00	:	23		be 155 to be avaitable of the best are es, are
		momet	onsdua	Least.	lbs. 0.0 0.0	0.0	0000		22		od to observed dings se time and observed dings se time and observed dings. From one; if the observed dings is the observed dings of
	WIND.	from An	Pressure on square foot.	Great-	lbs. 0.5 3.0	3.6	9 9 4	:	21		nnsider consider consider consider consider consider code by the code by the code by the code by the code code by the code code code code code code code cod
		As deduced from Anemometers,		P.M.	E. & ESE. E.	<b>ਛ</b> ੰ	E. bys. & sE. SW. W. & N. NNE.	Variable.	20	NOTES.	barometer is considered to be 159 feet above the mean that barometer. The observations are taken at 94. A.M. The barometer are considered to be coincident with those middly barometer. The observations are taken at 94. A.M. The means of the readings of the barometer, the dry amounter, observed at these times, are observed. The mean districtions deduced by James Glaisher, F.R.S., from five members. F.R.S., from five are deduced from those mean daily values of the dry aid ear, for the numbers exhibited in column 7, include the ear, read at 94. A.M.; nown; sh. P.M.; and 94. P.M. as well maximum and minimum thermometers, as determined by the proper corrections being applied to each. The average warmined by Mr., Galasher from the thermometrical observators, dreemwich, in the 69 years ending 1863, December 31, the meteorological observations are to be understood as all the meteorological observations are to be understood as evidenced of these naturements are regretered under the inspector on board, the ship, by permission of Lieut-Coll nereased from 30. 10 in. at the beginning of the week to it, decreased to 29. 64 in. by 36. F.M. on the 27th; and was in dry and was
			General Direction,	А.М.	nne. 2. nnw. E.	ធំ .	ENE. & E. SSE. WSW. WSW.	Vari	19		42 # 42 8 # 4 5 1 8 # 4 5 8 # 4 6 F F F 6 1 8 # 4
	Degree			sented by 100.	76	1.9	61 66 72 82	72	18		cisteman distribution of the reading the reading the west application of the reading of the wood of the wood of the world the reading the
Under the Superintendence of the Astronomer Loyan,	310	Between mean tem-	the day and mean tem-	perature of the same day on an average of 50 years.*	+ 0.7	+ 3.4	+ 8.0 + 12.3 - 1.8 - 4.9	+ 2.1	17		The height of the cistern of the vel of the sea. The readings of the Royal Society's flint glass moon; 3h. P.M.; and 9h. P.M. thermometer, and the wet thermometer, and the wet thermometer, and the wet thermometer by considerable of humidit wet hulb thermometers by Glaif or mean daily temperature of the observations of the dry thermometer emperature of the aris is that de tions taken at the Royal Observations the comperature of the air is that de tions taken at the Royal Observation of the dry thermometer than the average. The results of about 2 test below the surface.  "In temperature of the air is that de about 2 test below the surface. The results of applying to the civil day, or from the momentary of the beautiful of the lead of the resident to 29 shin at the end of the week.
ronom	DIFFERENCE	Point re	ure	Least.	0.0	1:1	0.00	1.0	16		he he ele of the he ele of the beet of the
ne Ast	DIF	Between Dew Point Temperature	Air Temperature	Great-	0 18.4 14.4	21.2	21.9 23.1 18.0 19.0	19.4	15		
ce of t		Betwee	Air T	Mean daily value,	0.00	6.01	13.5	9.1	14		y fine. onwards. ew drops
intenden		in the Water of	Greenwich, by self-registering	Thermometers.	51.3	51.5	55.2 56.8 52.8 56.0	53.6	13	9	
e Super				Thermometers,	54.8	56.1	57.6 59.4 58.6 60.9	57.5	12	PHERI	y. y. y. f. night. y. through through through through the bout 9h.
Under th	TERS.	Lowest on the	shownby a self-	register- ing Minimum Thermo- meter.	36.6	39.0	35.0 49.0 40.0 31.0	37.5	=	ATMOS	A very fine day, outless.  A very fine day, outless.  Outless.  Yariab out prevalent f P.M.  P.M.
	Тневмометева.	Highest in the sun, as	a self-regis- tering Thermo-	meter with blackened, bulb in vacuo, placed on the Grass.	133.4 139.5	143.5	151·1 139·8 135·8 136·3	139.9	101	SKY AND ATMOSPHERE	A A A Vilya
	ADINGS OF	Dew Point.	Mean		47.0	46.8	49.1 55.3 44.5 45.2	47.6	6	302	through Gane Gane Through Gane
	READIN		Mean		54.5	57.7	62.6 67.2 53.4 50.5	56.7	00		Cloudy till the afermoo Cloudest throughout. Very fine. Generally c. Cloudless, Very fine. Cloudless in the early man fell more or less hou an fell more or less hou Variable amounts of c. Variable amounts of c. Variable amounts of c. Variable eloudy. We consult the same Generally cloudy. V. P. M. and 4th. P. M. rail.
		Dry.	Range	in day.	22.8	21.9	83.2 21.1 19.4 25.9	24.0	1	-	
		0		Low-	46.7	46.5	44.0 58.4 47.8 40.7	46.1	9	4	prevalent e tension. e tension. it. rally pre- e evening. with weak with weak with weak if her with the Wid. if her wid if he wid.
				High-	69.5	68.4	77.2 79.5 67.2 66.6	70.5	10	CITY.	was pr the affet i the affet inight. generalli if the ne P.M. with the me ally after M. wid re sand n
	BARO-	Mean	(cor-	and reduced to 32 degr. Fabren heit).	in. 30·154 30·030	29-835	29.714 29.658 29.810 29.823	29.861	14	ELECTRICITY	Weak positive was prevalent uning the day.  Positive, with moderate tension.  Weak negative in the afternoon, to derate positive at night.  Weak positive all the evening, egative and negative, with weak major at times.  Weak negative in the mornine; eak positive generally after with, seek positive generally after wards, ceep between 20. P. M. and 40. P. M. seek helveen 20. P. M. and 40. P. M. seek helveen 20. P. M. and 40. P. M. seek helveen 20. P. M. and 40. P. M. seek helveen 20. P. M. and 40. P. M. seek helveen 20. P. M. and 40. P. M. seek helveen 20. P. M. and 40. P. M. seek helveen 20. P. M. and 40. P. M. seek helveen 20. P. M. and 40. P. M. seek helveen 20. P. M. and 40. P. M. seek and againe and currents.
	Moon.		Phases	Moon.		Greatest Dec. N.	First Quarter	:	90	E	Weak positive was prevalent during the day.  Positive, with moderate tension.  Weak n-getive in the afternoon, moderate positive at night.  Weak, positive generally prevalent.  Negative ahout 9h. P.M.  Positive end negative, with weak consion at times.  Weak negative in the mornine; weak positive generally afterwards, weak positive generally afterwards, weak positive generally afterwards, were afrong positive and negative in weak over a shown, where allowed the positive and negative weak positive generally afterwards, were afrong positive and negative weak positive and negative weak positive generally afterwards, were afrong positive and negative weak positive and negative was currents.
				DAY.	22	- 23	¥ 25 25 27 27	1:	mns.	-	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		101	1011	Month and Day.	MAY. SUNDAY	TUESDAY .	WEDNESDAY THURSDAY FRIDAY SATURDAY	MEANS	No. of Columns	DATE.	MAY.  NUNDAT  NUNDAT  TUEBDAY  WEDNESDAY  FINDAX  SATURDAY
	_				, , , , , , ,				-	-	

# WEEKLY RETURN

OF

# BIRTHS AND DEATHS IN LONDON

OF THE UNITED KINGDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, RO.

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WEEK ENDING SATURDAY, JUNE 3.

[Price 1d.

General Register Office, Somerset House, 5th June 1871.

During the week ending Saturday the 3d instant, 4895 births and 3302 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality in the week was at the rate of 23

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 22 per 1000; Portsmouth 17, Norwich 17, Bristol 21, Wolverhampton 16, Birmingham 21, Leicester 14, Nottingham 16, Liverpool 27, Manchester 20, Salford 34, Bradford 20, Leeds 21, Sheffield 19, Hull 20, Sunderland 28, and Newcastle-upon-Tyne 28. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had been 355 and 357, were last week 307; of these 229 occurred in London, 35 in Liverpool, 18 in Sunderland, 15 in Newcastle-upon-Tyne, 3 each in Manchester and Salford, and one each in Portsmouth, Birmingham, Bradford, and Sheffield. The annual death-rate in the week from small-pox was equal to 4 per 1000 persons living in London, 3 in Liverpool, 6 in Newcastle, and 9 in Sunderland.

In Southampton 16 deaths from small-pox were registered last week, against 17 and 16 in the two previous weeks; the annual death-rate from this disease alone was last week equal to 17 per 1000 persons living. Dr. MacCormack, Medical Officer of Health to the town, writes that the 1000 cases of the disease recently reported to the Sanitary Committee were not then co-existent, but were the cases that had occurred between 1st January and the 1st May, since which he adds

that 495 additional cases have occurred.

In Edinburgh the annual rate of mortality from all causes last week was 32 per 1000 persons living, in Glasgow 36 per 1000, and in Dublin 27.

In Brussels 173 deaths occurred in the week ending 27th ultimo, and the annual

death-rate was 45 per 1000.

Dr. Zuelzer, in forwarding his last weekly return for Berlin, called attention to the epidemic cholera now prevailing in Russia, especially at St. Petersburgh, the only capital of a great state from which no direct returns are as yet received. In this respect Russia is behind the rest of the world. It is now time to put our house in order. The sewers are the main channel through which the cholera matter has been hitherto thrown into the rivers, and thence distributed with the water supply. Give our towns pure water, improve their sanitary conditions, and they can bid this Asiatic disease defiance.

In the City of New York 514 deaths were registered in the week ending

13th ultimo, and the equivalent annual rate of mortality was 28 per 1000.

In Bombay the deaths registered during the week ending the 2d ultimo were 334, and the mortality was at the annual rate of 21 per 1000. In Madras 288 deaths were registered in the week ending 21st April, showing an annual deathrate equal to 35 per 1000 of the population.

In London 1992 BIRTHS and 1393 DEATHS were registered last week. After making due allowance for increase of population, the births were 247 below, while the deaths exceeded by 20, the average numbers in the corresponding week.

of the last ten years.

Zymotic diseases caused 400 deaths last week, including 229 from small-pox, 16 from measles, 25 from scarlet fever, 10 from diphtheria, 28 from whooping-cough, 43 from different forms of fever (of which 10 were certified as typhus, 20 as enteric or typhoid, and 13 as simple continued fever), and 20 from diarrhæa; thus to the seven principal diseases of this class 371 deaths were referred last week, against

 $\lceil 22. \rceil$ .

413 and 393 in the two preceding weeks. The fatal cases of fever showed a

considerable increase upon those in recent weeks.

The fatal cases of small-pox in London, which in the two previous weeks had been 267 and 257, further declined last week to 229. In seven permanent and temporary hospitals for this disease 112 deaths were recorded last week, of which 71 and 24 occurred respectively in the institutions at Hampstead and Stockwell. After distributing these deaths among the districts from which the deceased had been admitted, it appears that 28 deaths belonged to the West group of Districts, 82 to the North, 20 to the Central, 24 to the East, and 75 to the South. The fatal cases showed a large increase in the North Districts, while there was a marked decline both in the East and South of London. No less than 43 of the 82 deaths from small-pox in the North Districts belonged to Pancras, showing an annual death-rate of 10 per 1000 of the persons living. In St. James Bermondsey and in Battersea the fatality was also very great; in the latter sub-district, of 29 deaths 16 resulted from small-pox, or equal to an annual rate of 15 per 1000 of the population.

The failure of vaccination in arresting small-pox is due chiefly to defective administration. Dr. Bain, writing from Poplar, speaks of the great advantages that have there been derived, in spite of obstacles of various kinds, from the appointment of a vaccination officer to look up all unvaccinated cases, and to promote vaccination. In the Poplar District the annual rate of mortality from small-pox in the ten weeks ending 27th ultimo was only 1.3, while in the whole of London it

averaged 3.9 per 1000 persons living.

To different forms of violence 58 deaths were referred last week; of these 44 were accidental, including 23 by fractures and contusions, 9 from drowning, 8 from suffocation, and one from poison; of the deaths from fractures and contusions, 6 were caused by horses or vehicles in the streets. Ten cases of suicide, and two of homicide, were recorded in the week.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.98 in.; the highest reading was 30.09 in. on Monday evening, and the lowest 29.85 in. on Thursday at noon. The mean temperature of the air was 53°.9, or 2°.7 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 74° 6 on Tuesday; the lowest night temperature 40° 3 also on Tuesday; the entire range of temperature in the week was, therefore, 34° 3. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 148° 9 on Monday. The mean temperature showed an excess on the first three days of the week, but was below the average on the last four. On Tuesday the mean was 59°.9, and 3°.6 above the average, while on Saturday it was only 47° · 2, and 10° · 2 below the average. The difference between the mean dew-point temperature and air temperature averaged 7°·2. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 59°1 last week. The mean degree of humidity of the air was 77, complete saturation being represented by 100. The general direction of the wind was N.E. and N., and the horizontal movement of the air in the week averaged 11 miles per hour. on Sunday, Friday, and Saturday, but only to the amount of '10 of an inch.

The mean temperature of the week in the other large English towns furnishing returns, ranged from 48° 5 in Newcastle, to 56° 9 in Portsmouth; the lowest recorded night temperature was 35° 2 in Portsmouth; and the highest day temperature in the shade 78° 8 in Nottingham. Rain was measured last week in most of the large towns furnishing returns, but the fall was very light, and ranged

from '02 of an inch in Liverpool and Sheffield, to '34 in Norwich.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 12°·2; the highest day temperature in the shade was 23°·7, the lowest night temperature 4°·6, the highest temperature in the sun was 64°·9. The mean temperature of the corresponding week in 50 years averaged 13°·7, or 1°·5 above the temperature of last week. The wind blew at the rate of 18 kilometres an hour; and the rain-fall measured '25 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 188,600 cubic metres, and at Barking 232,353 cubic metres, equiva-

lent to about as many tons by weight.

TABLE 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the TWENTY-SECOND Week of Ten previous Years.

Total Births  Males Females .	1861 1959 972 987	1862 1986 1010 976	186 <b>3</b> 1997 1005 992	1864 1893 919 974	1865 1860 969 891	1866 2136 1111 1025	1867 2237 1176 1061	1868 2039 1018 1021	1869 2100 1080 1020	1870 2150 1101 1049	Average of 10 Weeks.  2035 7 1036 1 999 6	1992 1024 968
Total Deaths Males Females	1069	1119	1296	1213	1187	1540	1250	1217	1355	1232	1247·8	1393
	549	591	649	639	641	792	642	676	683	644	650·6	771
	520	528	647	574	546	748	608	541	672	588	597·2	622

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	Mar. 11.	Mar. 18.	Mar. 25.	Apr.	Apr. 8.	Apr.	Apr. 22.	Apr. 29.	May 6.	May 13.	May 20.	May 27.	June 3.
TOTAL Deaths	1601	1576	1665	1564	1493	1722	1578	1469	1522	1341	1486	1401	1393
Deaths under 5 years of age - Deaths 5—20	652 162	616 150	643 151	613 139	573 157	670 174	583 167	581 159	568 183	519 142	594 152	485 153	513 137
Deaths 20—40 Deaths 40—60 Deaths 60—80	244 242 238	259 251 256	279 276 264	251 241 271	262 237 197	291 262 249	277 244 258	248 226 212	276 253 193	232 189 213	260 214 207	270 227 217	242 236 223
Deaths at 80 years & upwards	63	44	52	49	67	. 76	. 49	41	49	46	45	49	- 42
Deaths from Smallpox - , , , Measles	194 14 54	185 13 83	205 10 36	192 13 33	214 15 37	265 6 40	276 13 27	261 12 30	288 17 29	232 16 35	267 11 28	257 23 28	229 16 25
" Diphtheria Whooping-cough	9 67	55 10	6 48 12	6 41	6 53 8	4 66 8	44	7 45 10	36 7	25 11	8 43 9	2 48 7	10 28
" Typhus fever - " Enteric (or Ty- phoid) fever -	15	16	14	13	11	14	11	13	14	9	18	8	10 20
,, Simple Contd fever ,, Diarrhœa - ,, Simple Cholera -	15	9	6 9 1	11 14 —	10 7 —	9 6 —	7 15 —	14	13 13 —	13	7 22 2	8 12 —	13 20 1
" " Phthisis " " Bronchitis " Pneumonia - " Heart Disease -	160 176 89 59	178 209 77 67	205 224 94 79	162 193 72 69	181 149 67 81	182 189 84 66	171 145 80 70	158 133 72 64	183 123 58 66	154 108 50 71	170 100 62 53	154 95 52 57	148 81 58. 64
Mean Temperature of the Air	46.3	41.7	47.1	43.8	43.1	48.3	50°·0	50.7	49.7	47.6	50.1	56.7	53.9
Mean Temperature of the Water of the Thames	45.2	45.2	44.4	47.5	45.7	47.0	50.8	51.9	52.7	53.2	52.4	55.6	59-1
Humidity of the Air	78	81	82	75	76	81	89	85	74	76	73-	72	77
Rain-fall in inches	0.47	0.28	0.02	0.03	0.01	0.36	1.75	0.80	0.20	0.15	0.16	0.22	0.10

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., M.S., Willer, J. D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernor, Esq., F.R.A.S., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds-; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered and METEOROLOGY during the Week ending Saturday, the 3d day of June 1871, in the following large Towns.

		,		10/17		0					_
CITIES	Area	Estimated Population	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE	THE AIR.	THE AIR.	RAIN	FAL
441 1 41	in T	in the	to an	during the	during the			Weekly	GRADE.)		
AND	Acres.	middle of the Year	Acre.	Week ending	Week ending		Lowest	Mean	Weekly	To	
BOROUGHS.	Acres.	1871.*	(1871.)	3d June	3d June	during	during	of the Daily	Mean of the Daily	In Inches.	Ce
				1871.	1871.	Week.	Week.	Mean Values.	Mean Values.		IIIe
			1			l		values.	varues.	<u> </u>	1_
Total of 20 Towns in the United Kingdom	213,281	7,336,961	34.4	4895	3302	78.8	35.2	53.8	12.11	1.58	3
LONDON	77,997	3,258,469	41.8	1992	1393	74.6	40.3	53.9	12:17	0.10	0.
PORTSMOUTH -   -	9.513	125,464	13.2	74	. 41	78.4	35.2	56.9	13.83	0.00	0
Norwich:	7,472	81,787	10.9	47	27	74.0	41.0	50.9	10.20	0.34	0
BRISTOL	4,688	173,364	37.0	129.	71		-	-	_	_	
WOLVERHAMPTON -	3,387	74,438	22.0	47	23	77.2	38.1	54.2	12.33	0.00	0
Department		378,574	48.3	250	154	77.4	38.0	54.4	12.44	0.22	0
BIRMINGHAM	7,831	101,367	31.7	250 78	.28	76.7	39*2	53.1	11.73	0.00	0.
NOTTINGHAM	3,200 1,996	90,480	45.3	51	28	78.8	38.4	54.8	12.66	0.06	0
LIVERPOOL	5.108	526,225	103.0	370	277	73.2	41.4	54.4	12.44	0.02	0
MANCHESTER -	4,486	379,140	84.2	212	143	75.0	37.0	55.2	13.05	0.04	0
SALFORD - \-	5,172	123,851	23.9	70	81	71.2	36.6	53.6	12.00	0.07	0-
BRADFORD	6,590	148,030	22.2	93.	56	75.5	41.6	55.4	13.00	0.00	0
LEEDS	21,572	266,108	12.3	265	105	76.0	42.0	54.3	12.94	0.03	0
SHEFFIELD	22,830	255,247	11.5	185	92	77.0	41.0	53.1	11.73	0.05	0
HULL	3,562	135,195	38.0	90	53	70.0	37.0	49.4	9.66	0.07	0
SUNDERLAND	3,306	103,037	31.2	65	. 56			-		-	
NEWCASTLE-ON-TYNE	5,336	136,293	25.5	125	72	65.0	39.0	48.5	9.16	0.00	0.
EDINBURGH	4,427	179,944	40.6	162	110	76.0	40.0	56.4	13.55	0.07	0:
GLASGOW	5,063	477,627	94.3	390	328	70.7	38.0	54.0	12.22	0.50	0.
DUBLIN	9,745	322,321	83.1	200	. 164	75.9	38*2	56.4	13.55	0.04	0.
											1

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d April, will probe available before the middle of the year, and will then be substituted for these estimates.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the W ending Saturday the 3d day of June 1871.

	ANNUAL RATE		:		Th	e DEAT	Hs reg	stered	n the Y	Veek ir	iclude		
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence. :	Inquest Cases.
Total of 17 Towns -	22	2700	608	489	307	79	64	14	57	94	40	104	192
LONDON	22	1393	275	265	229	16	25	10	28	43	20	58	109
PORTSMOUTH	17	41	14	5	1	1	1	-	2	3	-	2	3
Norwich	17	27	8	6	-	- 1	-	-	-	-	-	4	4
BRISTOL	21	71	16	22	-	-	3		1	2	1	1	4
WOLVERHAMPTON -	16	23	8	7	-	1	-	_				_	-
BIRMINGHAM	21	154	40	19	1	21	1	1	5	2	4	9	19
LEICESTER	14	28	5	5	-	1	-	la la	_	4	1	1	3
NOTTINGHAM	16	28	4	8	-	- 1	-	-	-	-	1	1	1
LIVERPOOL	27	277	72	42	35	11	11	2	9	20	4	11	14
MANCHESTER	20	143	34	23	3	7	7	-	-	6	1	5	12
SALFORD	34	81	24	14	3	8	3	1	1	1	1	1	4
BRADFORD	20	56	14	12	1		3.	t-	-	8	1	2	3
LEEDS	21	105	35	15	-	1	4	_	1	1	3	2	4
SHEFFIELD	19	92	19	12	1	5	2	-	6	2	2	3	7
HULL	20	53	14	9	_	6	1	-	1	2	_	1	1
SUNDERLAND	28	56	11	9	18	- /	2	-	3	1	1	1	1
NEWCASTLE-ON-TYNE -	28	72	15	16	15	ì	1	-	in .	-,4	-	2	3
DUBLIN	27	164	14	39	-	1	2		3	6	2	3	. 10

TABLE 5 .- DEATHS in LONDON Registered in the TWENTY-SECOND Week of the Year 1871.

	70.		In th	e W	eek e	udir	ıg		In the Week ending
	Averages of the Twenty-second Week in the 10 years 1861-70		aturd Deat					-	CAUSES OF DEATH.  The Week ending Saturday, June 3, 1871.  Deaths of Persons of the Ages.  ALL Under Ages.  ALL Under Ages.  ALL Under Ages.  Mean Saturday June 3, 1871.
CAUSES OF DEATH.	secon years		1	the	Ages	. 1	-		CAUSES OF DEATH.
	Aversents enty-	ALL AGES.	Une 20		ler 40	ler 60	ler 80,	and	TAVEST OF THE PROPERTY OF THE
	Tw in th	Mean Tem.			d under	d under	d under	Years upwards.	AGES: 20. Hear and under 20. See and under 20. See and under 20. See and under 30. S
Mean Temperature -	56.5	53.9	0-5.	6-20	20 and	40 and	60 and	Y 08	Mean Temperature - 56.5 5.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ALL CAUSES - ' -	1247.8	1393	513	137	242	236	223	42	9. Stricture of Intestines - '5 2 1 1 10. Fistula 6
SPECIFIED CAUSES	1230.5	1389	509	137	242	236	223	42	11. Stomach Disease, &c 6'7   5   2   - 1   2   - 12. Pancreas Disease, &c
I. ZYMOTIC DISEASES. ORDER 1.									14. Jaundice 3.9 8 2 1 1 - 15.0 12 2 3 4 4 1
1. Small-pox	16·5 41·0	229 16 25	85 · 15	68	59	15	2 -	-	16. Spleen Disease, &c 2 1
3. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy	47°8 8°3 °8	10 1	19	4 5 1	1	-	=		1. Nephritis 1 4 1 1 2. Ischuria
6. Croup	13.0	28	9 28	-	- 4	-		-	3. Bright's Disease (Nephria) 8.3 11 8 2 - 1 4. Diabetes 1.3 2 2
8. Typhus	43.4	10 20 13	- 3 5	9 5	4	2 4	2		5. Calculus (Stone) 1.0 6. Cystitis 1.3 3 3 - 7. Kidney Disease, &c 7.7 11 4 2 5 -
10. Puerperal Fever (Metria)	6.3	8 2	1 -	-	1 2	8	2 -	1	ORDER 6.
11. Carbuncle	1.6	-	I	-	-	-	-	-	1. Ovarian Dropsy 5 5 2 1
14. Diarrhœa	20:2	20 1	15 1	-	-	-	4	1 -	ORDER 7.  1. Synovitis (Arthritis) - '3
16. Ague	1.1 6.2	1 -	B	-	1	- 1	3	-	2. Joint Disease, &c 5.3 8 1 1 3 2 1 - ORDER 8.
19. Other Zymotic Diseases - ORDER 2.		6	1	1	-	_	-	-	1. Phlegmon 1'4   1 1 2. Ulcer '7   1 1   1   1   1
1. Syphilis	8.1	7 2	5	-	-	2	1	-	3. Skin Disease, &c 1.4 1 1
3. Hydrophobia			=	Ē	-	_	-	-	DISEASES, CREER 1.
ORDER 3. 1. Privation 2. Want of Breast-milk -	7:2	7	7	-		-	-		1. Premature Birth 19.6   27   27   -   -   -   -
3. Purpura and Scurvy - 4. Alco-\(\alpha\) Del. Tremens - holism \(\beta\) Intemperance -	1.5 2.3	3	7 2 -	-	2 1 1	1 2	-	1	3. Spina Bifida '7
ORDER 4.	1.2	2		-		1	-		5. Teething 17.5 14 14 ORDER 2.
1. Thrush	2.9	1	2	=	ī	=	=		1. Paramenia 5
I. CONSTITUTIONAL DIS- ORDER 1.									ORDER 3.
1. Gout	1.7	6	2 1	-	1	1	1 2 6		1. Old Age 41'4 55 30 25 ORDER 4.
8. Cancer	26.7 .3 3.3	30 - 8	-	1 -	4	18	6	- 2	1. Atrophy and Debility - 56.8 47 34 2 1 - 10 -
ORDER 2.	10.5	7	6	-	1		-		V. VIOLENT DEATHS, &c. ORDER 1.
2. Tabes Mesenterica	18°4 172°3 33°7	25 148	22 6 31	11	73	45	12	ĩ	(Accident of Negligence.)
4. Hydrocephalus III. LOCAL DISEASES.	00.7	35	91	4	_	-	_		2. Wounds '5   1 1 3. Burns and Scalds - 3.8
ORDER 1.	13.0	12	8 7	-	3	-	1	-	4. Poison   1.0   1   7   7   1   3   -   -   5. Drowning   8.7   9   1   4   1   3   -   -
2. Apoplexy	32.9	49 23 2	7	2 -	1 2	17 4 2	21 16		6. Suffocation 6.0 7. Otherwise 2.8 2 1 1
5. Chorea	1.8 1.6.4	3	=	111	- 1	1	-	-	ORDER 3. (HOMICIDE.)
8. Brain Disease, &c	18.6	56 16	55 3	1	2	4	7	-	1. Murder and Manslaughter 3.0 2 1 1
ORDER 2.  1. Pericarditis		3	1	-	2	-	-	-	ORDER 4. (SUICIDE.)
2. Aneurism	2.9	64	3	-	13	25	23	-	1. Wounds {Gunshot - 3   1   3   1   3   1   3   2. Poison 9
ORDER 3. 1. Laryngitis 2 Bronchitis	6·5 92·5	3 81	3 20	-	11	20	36	-4	3 Drowning 1.7   1 1 - 1 2   1
2 Bronchitis	8.4	3 58	33	6	6	10	3	_	5. Otherwise '4
6. Lung Disease, &c	11.1	14	5	ī	1	.3	8	ī	(EXECUTION.)  1. Hanging
1. Gastritis	1*9 5*6 4*1	3	ī	ī	ī	-	-		
3. Peritonitis	3.5	3	-	1 1 -	1	2 2 1	-	-	Violent Deaths (not classed) '3 2 - 2 2 Sudden Deaths (Cause un-) 2:0
5. Ulceration of Intestines - 6. Hernia 7. Ileus	2°4 3°0	1 3	-	-	1 1	1	1 2 1 1	-	ascertained) { 2
8. Intussusception	2.0	-	-	-	-	-	-	-	defined   13 3   *   *   -   -

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarler during the Week ending

				_								uui	ing	the	w ee	k en	uing
		during	during				The	DEAT	Hs re	gis <b>t</b> ere	d in	the W	eek i	nclud	3		
REGISTRARS' SUB-DISTRICTS.	POPU- LATION 1861.	EH .	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	2,803,98	9 1992	1393	275	265	229	16	25	10	28	10	20	13	20	58	109	313
West Districts North Districts Central Districts East Districts South Districts	- 458,125 - 618,210 - 383,321 - 571,158 - 773,175	310 461 189 396 636	222 369 135 244 423	50 58 22 57 88	48 70 37 45 65	10 116 11 17 75	1 2 2 - 11	5 5 1 6 8	3 3 1 2 1	9 3 2 6 8	2 3 - 2 3	2 6 1 2 9	2 3 1 4 3	4 3 1 3 9	7 14 6 11 20	16 26 13 17 87	45 133 26 35 74
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL Brompton H - St. Peter Hammersmith - St. Paul Hammersmith H - Fulham WLLL - Chelsea North-west HWw - Chelsea North-east L - Hanover Square - May Fair W - Belgrave HH - St. John Westminster HHH St. James's Square Golden Square W - Berwick-street H - Serwick-street - Servick-street - Serv	- 39015 - 36769 - 51910 - 18198 - 5415 - 19104 - 15539 - 21654 - 19773 - 12885 - 55113 - 37483 - 30730 - 10607 - 10607	35 7 74 19 1 22 11 12 16 8 3 5 32 20 17 2 8 8	16 9 35 17 1 12 12 12 15 8 7 7 4 22 12 12 15 5 6 5	5 - 12 4 1 5 4 3 4 1 - 3 2 2 2 1 - 1	4371 -23 731 2 -134 1123	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 2 1 1	1 - 1 - 1 - 2 - 1 - 1 - 1 - 1 - 1		1	111 811111111811	1 1 1 - 2 1 1 1 1	1 2 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-22551511715541
St. Anne Soho HH NORTH DISTRICTS.  All Souls Marylebone HH Cavendish Square - Rectory Marylebone H Christehurch Marylebone - St. John Marylebone	- 17426 - 29952 - 15090 - 26692 - 24493 - 34913 - 32540 - 19106 - 34997 - 29371 - 27808 - 39099 - 44317 - 75442 - 75499 - 6668 - 5483 - 24265 - 31481 - 15458	20 7 26 14 16 18 10 15 15 15 20 16 57 70 81 3 5 9 25 19	18 3 17 3 16 9 79 19 18 22 15 10 23 37 5 - 9 24 10	3 - 1 1 6 3 3 6 2 3 2 2 6 6 7 6 1 - 3 2 1	2 1 4 2 2 1 5 2 5 4 7 2 5 1 1 1 1 2 5 1		1	1	1	1	1	1112	1	111111111111111111111111111111111111111	1 1 2 3 3 3 2 1 1	1 2 5 6 1 2 1 1 1 1 1 1	7 - 9 71 - 6 6 - 1 3 10 6 6 14
CENTRAL DISTRICTS.  St. George Bloomsbury - St. Giles South WH St. Giles North Long Acre Charing Cross WH St. Mary-le-Strand St. Clement Danes H - St. George-the-Martyr HHH - St. Andrew East Holborn W Saffon Hill St. James Clerkenwell W - Amwell Clerkenwell W - Amwell Clerkenwell Goswell-street - City-road WHHL - Whitecross-street - Finsbury - St. Bride W - St. Bride W St. Sepulchre H - St. Sepulchre H - St. Sepulchre H - St. Bride W - Castle Baynard - Christchurch Queenhithe - Allhallows Barking Broad Street	- 17392 - 19483 - 17201 - 11618 - 11071 - 10346 - 15207 - 12947 - 12912 - 17220 - 13079 - 16307 - 14778 - 12931 - 20990 - 115305 - 7022 - 7022 - 7022 - 8570 - 8650 - 8650 - 8650 - 8650 - 11544	13 16 5 8 3 6 6 6 15 9 4 8 12 8 12 7 1 6 8 2 1 7 1 6 8 2 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 9 9 3 8 2 10 7 9 3 5 4 8 3 2 2 7 8 1 7 5 8 4 - 2 2 2 3	111222	333311-4433211-1-33122-111	111111111111111111111111111111111111111				2				1	1		

NOTE.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

w.-Workhouse;
H.-Hospital;
L.-Lunatic Asylum;
w.-A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 3d June 1871.

Saturday, 3d June 1871.																	
		during	during				The 1	DEATH	is reg	istere	d in		eek ir	ıclude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATES du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhoes.	Violence.	Inquest Cases.	In Public Insti- tutions.
East Districts.  Holywell Shoreditch — — — — — — — — — — — — — — — — — — —	17313 19188 26516 25777 23260 17310	5 11 14 14 20 5	7 9 7 7 11 7	111412	1 3 -1 4 3	111111	111117	1 - 1 1	11111		111111	111111	1		1 2 - 1 - 1	1	4
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 81789 25528 21486	21 34 20 14	7 14 9 10	3 4	3 - 4	2 3 -	1111		1111		- 1 -	- - 1		1 -	1	1111	8 -
Artillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	3 12 8 8 6 6 2	1 3 6 2 13 4 2	1 1 2 -	1 1 2 -	1	111111	1111111	1111111	1111111	1111111	111111	1111111	111111	1 2 1	1 1 2 1 -	18
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	16 14 10	7 9 10	3 2	3 1 3	1 2	111	ī -	151	- - 1	1.1.1		1.1.1	111	1 -	1 -	- - 5
Shadwell W	12537 16874 27161	5 9 15	2 6 14	1 5	4	1	11.	- 11	2	-	171	-	111	-		111	ĩ
Mile End Old Town West Mile End Old Town East WwH	33747 39317	13 28	14 23	4 4	3 1	3	-	2	1.1	2	ĩ	1	2	-	-	-	-
Bow WwHL†	35667 43529	49 34	28 12	8 7,	5 1	ī	-	-		2 -	-	-	-	1 -	-	3	6 3
SOUTH DISTRICTS.  Christchurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	17 7 12 10 6 16 37 10	10 3 15 7 4 10 20 7	2 2 4 1 1 2 7 -	3 -2 1 1 2 4	1 3 - 2 2 -	111	1	1111111111		11111111	111111	1	111111	111112	2	4 - 1 - 5
St. Olave Southwark H	7663 11393 16696 16505 25154 24502	2 6 14 5 30 13	10 10 5 9 31 9	- 2 1 2 6 3	1 1 2 5	2 2 8 -	1 1 -		111711		1 1 1	- 1 -		8 - 1 - 1	3 - 1 - 1	3 - 1 1 1	8 7 3 -
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	15 17 17 34 33 24 21 5	5 6 9 20 11 8 36 2	2 3 1 8 1 2 4	1 2 5 2 -	+ - - 2 2 25 -	111111111111111111111111111111111111111	1	1111111	1	1	1 1	1111111	1 1 2 -	1111111	1	5 - 25 -
Clapham   HL	20894 19600 13346 6481 10082	17 36 16 4 6	9 29 5 1 4	4 1 - 2	2 3 1 -	16 1 -	ī - ī	1	- - 1	1	1111	1		11111	1	1 2 -	2 1 -
Dulwich Camberwell WL†L† Peekham W St. George Camberwell	1723 21297 28133 20833	4 15 24 22	19 14 9	1 2 1 2	1 4 5 8	1 -	1111	1	1111	- 1	11.114		1111	ī 1	- - -	1 - 2	5 1 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18396	34 2 13 11	24 2 6 8	7 1 2 1	2 - 1 2	1 -	1.	1111	1,111	1 -		- - 1			2 1 - 1	5 1 1 3	- 5
Eltham	3009 11003 7872 10595	3 6 13	1 4 2 6	1 - 2	1 -			1111		-	1111				1111	- 2	
Charlton H Woolwich Doekyard Woolwich Arsenal H Plumstead, West Plumstead, East	9276 22919 18776 113::2 13170	5 4 19 9 19	7 6 7 6 5	2 1 2 1	1 2 -	11111		1			11111	- - - 1	ī - 1	11111	3 1 - 2 -	3 2 1 2 -	2

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

Holborn Workhouse is in Hoxton New Town sub-district.

London City , , , Mile End Old Town Eastern sub-dist, and Bow sub-district.

Stepney - , , , , Bow sub-district. London City ,, Stepney - ,,

<sup>†</sup> Lunatic Asylums where paupers are admitted.

	WIND.
ı	Degree of Hu-
e of the Astronomer Royal.]	DIFFERENCE
[Under the Superintendence	READINGS OF THERMOMETERS.
	BARO-
	Moon.

TABLE 7. - METEOROLOGICAL OBSERVATIONS taken at the ROTAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 3d June, 1871.

RAIN.		Gauge		102O		:::														
RAIN.		auge hose	0.0			• • •	:	:	::	:	56	-	hose	dry nean five	and	well by	rage srva- sr 31.	d as	bout per-	k to sased une;
			surface is 5 in	8	Inches	90.00	00.0	00.00	0.01	Sum 0.10	95		ve the r	ometer, the dry orted into mean 7.R.S., from five	the dry and	include P.M., as termine	The average ical observa- December 31.	nderstoo	opth of a er the su f Lieut.	the wee th; incre 1st of J reek.
		Kobinson's.	Amount of Horizontal	of Air each day.	Miles.	360 284 130	202	238	299 351	Sum 1876	24		feet abc	The observations are taken at addings of the barometer, the dry e times, are converted into mean James Glaisher, F.R.S. from five	values of	solumn 7, and 9h.	to each.	e to be u	at the de ered und nission o	nning of n the 300 n on the I of the w
	. 1			Mean of 24 Obs.	lha	4.00	0.0	0.5	0.4	:	23		be 159 to be	ouser ss of the es, are	daily	ad in n. P.M. nomet	oplied the the rs end	ons ar	Ship, regist	e begi P.M. o oy noo he enc
	Nemom		enbs uo	Least.	lbs.	0.0	0.0	0.0	0.0	:	22		ed to	readingse time	mean Fo	xhibit	eing al from 1 50 yea	servati	Police treatment to the property of the proper	at the by 9h. 85 in. at t
WIND.	d from	, e	Pressure on square foot	Great-	lhe	1.6	63		8 65 24 4	:	23		nsider	of the at the reed by	those	bers e	tions b	ical ob	rpion "rumen the sl	9.86 in. 92 in. to 29 s 29.94
	As deduced from Anemometers	Jsler	General Direction.	P.M.		NE. & ESE. Variable	NNE. &	Z	N. & N. by E.	& N.	20	NOTES.	The height of the cistern of the barometer is considered to be 159 feet above the mean rel of the sea. The readings of the barometer are considered to be coincident with those	t the Agyla Society's Inflictuates standard barbineter. The Observations are taken as 9n. A.M.; noon; 3n. P.M.; and 9n. P.M. The means of the readings of the barbineter, the dry thermometer, and the west thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Galasher, F.M.S., from five the converted of the c	years observations chung 1945, December 51.—See Fait, 17008, part 1, 1945. The mean using dew point and degree of humidity are deduced from those mean daily values of the dry and the true bulb the mean daily values of the dry and the true bulb the mean fail and the faith and the fail the fa	the very construction of the air or the numbers exhibited in column 7, include the for mean daily temperature of the air or the numbers exhibited in column 7, include the for mean daily temperature of the first of the numbers read at 8 h. A. A.; note; 3b. F. A., as well as the results deduced from the maximum and minimum thermometers, as determined by the results deduced from the maximum and minimum thermometers, as determined by	the self-engietering thermoneters, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glasher from the thermonetrical observations taken at the Royal Observations to the continue to the air is that determined by Mr. Glasher from the thermonetrical observations to the Royal Observations of the Continue to the	In resulting marging to the could be content in the content of the could be co	The competiture of the water of the Thanker is associated by the use of surregarding thermometers, suspended from the side of the "Scorpton" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the super-intendence of the resident inspector on beand the ship, by permission of LieutCol. Henderson, R.E., C.E., Commissioner of Metropolitan Police.	ing of the bacameter increased from 29.86 in. at the beginning of the week to Ph. P.A. on the 29th, decreased to 29.92 in. by 9h. P.A. on the 30th; increased by noon on the 51st of May; decreased to 29.65 in. by noon on the 1st of June; 90.02 in. by 9h. A.M. on the 3d; and was 29.94 in. at the end of the week.
		1	General I	A.M.		NNE. NE.	ENE. &	SE, SSW. &	NNW.	NE.	19		of the baro	t glass sta 1 9h. P.M. hermometer on of corre	45, December	of the air, mometer, r	eters, the protection of the p	ts of all the rounding	m the side of readings of inspector inssioner of	neter incre 29th; decre 31st of May
Degree	midity,	Satura-	repre-	by 100.		79	76	08	69	11	18		cistern e readi	y's nin .M.; and ie wet t	of hun	erature lry ther	ir is the	ne resultay, or f	ided fro ided fro ice. The esident	on the on the by 9h.
	Between mean tem-	and .	perature of	on an average of 50 years.*		++ 1:1	1.5	- 3.0	9.8	- 2.1	17		The height of the level of the sea. Th	of the koyal Society's intiglass si M. A.M.; noon; Sh. P.W.; and Sh. P.M. thermometer, and the wet thermomet daily values by the application of cor	rvations er and degree	daily temp ns of the cults deduce	ristering the a re of the a	than the average. The applying to the civil of	the temperature of the thermometers, suspended 2 feet below the surface. intendence of the residence Henderson, R. E., C. B., C.	The reading of the baron 30.09 in, by 9h. F.M. on the to 29.98 in, by noon on the 3 increased to 30.02 in, by 9h. J.
DIFFERENCE	Point 16	ure.		Least.	- (	0.00		0.0	8.4	1.2	16		ne heig	A.M.; 1 mome y value	s obse	mean rvation	self-reg peratu s take	the a	ne rem mome t belo ndence	he rea 9 in. b 9 98 in eased
DIF	Between Dew Point Temperature	and Air Temperature	Cuont	est,		13.7	19.4	12.8	18.2	16.5	15		T		dew			品在		
	Betwe	Air T	Mean	daily value.		4.9	9.4	0.9	8.6	7.5	14			reast til		tmounts	5m. A.M.	of rain	rain fell	prevailed.
	Water of	mes at	istering meters.	Lowest		57.0	58.6	26.0	58.2	6.99	13			Generally overcast till		s; small	at 9h. 45m.	a few drops of	A little	cloud
	In the V	the Thames at Greenwich, by	self-registering Thermometers.	Highest.	20.00	8.09	6.19	6.19	61.4	61.3	12	HERE			. · · · ·	morning ery clou	ain fell	and		unts of
ERS.	Lowest on the	shown by	register-	# è .		43.9	42.5	96.0	31.9	36.8	=	ATMOSPHERE.		lh. A.M.	prevalen	the early	wer of	at noon,	then va	ble amo
INGS OF THERMOMETERS	Highest in the sun, as	60				113.0			135.8	131.0	10	SKY AND A		from midnight till 1h. on. Cloudless at night.	ne day. Light clouds prevalent.	Cloudless and very fine during the early morning; small amounts of cloud prevailed till the evening; then very cloudy at times.	till noon, and a shower of rain fell ut fine after, 3h. P.M.	Gloomy	eloudy till night; then variable, during the afternoon.	y fine. Very variable amounts nowers of rain fell.
G8 OF	Dew Point.		Mean			52.3	47.5	48.0	37·7 40·3	46.7	6	Z.		l from n	day.	ind very	ill noor fine af	nougno	eloud v during 1	fine.
READIN			Mean	value.		56.7		54.0	47.5	53.9	00			Rain fell the atternoor	A very fine	Clondless s cloud prev	Overcast t Variable, but	Cloudy throughout.	Generally occasionally o	Generally Frequent sho
	Dry.		Kange	day.		23.3	23.5	29.8	19.8	24.5	1-			Ra the a	A					
	ū		Low-	est,		46.8		******	41.2	43.8	9				ij.	slightly variable	; then	.; posi-	rnoon; tension, e day.	with
			High-	est.		72.2		72.0	60.8	1.89	100	CITY.		right.	k tensio	ightly 1	l night	3h. P.M	the afteriable to	negative,
BARO-	Mean	(eot-	and re-	32 degr. Fahren- heit).	.5	29.971 30.075	29.968	29 - 889	29.988	29.980	4	ELECTRICITY		sitive at 1	with wea		sitive til	gative at	rative in rith var	
Moon.		es	of			: : : : : : : : : : : : : : : : : : : :	Equator	:	Perigee	:	00	BI		Weak positive at night.	Positive, with weak tension	Positive, with tension till night.	Weak positive till night; then much stronger.	Weak negative at 3h. P.M.; positive at other times.	Weak negative in the afternoon; positive, with variable tension, during the remainder of the day.	Positive and moderate tension.
			DAY.			288		-	01 03	! :	sumi				29	30 te	31	1. 22	, 62 G.Q	3
	1	1871.	MONTH AND DAY.		MAY.	SUNDAY	WEDNESDAY	JUNE. THURSDAY.	FRIDAY SATURDAY.	MEANS	No. of Columns	DATE.	MAY.	SUNDAY .	MONDAY .	TUESDAY .	WEDNESDAY		FRIDAY .	SATURDAY:

# WEEKLY RETURN

### BIRTHS AND IN LONDON DEATHS IN NINETEEN OTHER LARGE TOWNS THE UNITED KINCDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 23. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JUNE 10. [Price 1d.

> General Register Office, Somerset House, 12th June 1871.

During the week ending Saturday the 10th June, 5037 births and 3480 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week was at the rate of 25

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the SEVENTEEN ENGLISH CITIES and Towns, in the order of their topographical arrangement, were as follow:-London 23 per 1000; Portsmouth 13, Norwich 21, Bristol 19, Wolverhampton 18, Birmingham 21, Leicester 22, Nottingham 18, Liverpool 31, Manchester 28, Salford 38, Bradford 26, Leeds 23, Sheffield 23, Hull 22, Sunderland 32, and Newcastle-upon-Tyne 36. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had been 357 and 307, were 362 last week; of these 245 occurred in London, 41 in Liverpool, 30 in Newcastle-upon-Tyne, 26 in Sunderland, 10 in Manchester, 7 in Salford, and one each in Wolverhampton, Bradford, and Leeds. The annual death-rate in the week from small-pox was equal to 4 per 1000 persons living in both London and Liverpool, 11 in Newcastle, and 13 in Sunderland; the fatality showed an increase in each of these

In Southampton 26 deaths from small-pox were registered last week, against 16 in each of the two preceding weeks; these deaths were equal to an annual death-rate of 28 per 1000 persons living. In the six weeks ending last Saturday no less than 110 deaths from small-pox have been registered in this district.

In Edinburgh the annual rate of mortality from all causes last week was 25 per 1000 persons living, in Glasgow 34 per 1000, and in Dublin 22.

It is gratifying again to receive a weekly return from Paris, and to find that nature is holding her hand from inflicting death on the inhabitants with a pity which men will no doubt emulate. The deaths for the week that ended on 9th June were 1159, and only exceeded by 101 those recorded in the corresponding week of 1870. In Brussels 149 deaths occurred in the week ending 3d instant, and the annual death-rate was 39 per 1000; the deaths from small-pox continue to decline.

In the City of New York 474 deaths were registered in the week ending 20th ultimo, and the equivalent annual rate of mortality was 26 per 1000; the fatal

cases of small pox were 21, against 15 and 26 in the two previous weeks.

In Bombay the deaths registered during the week ending 9th ultimo were 338, and the mortality was at the annual rate of 22 per 1000; of the 338 deaths, no less than 62 resulted from small-pox, showing an increase of 16 upon the previous week. In Madras 283 deaths were registered in the week ending 28th April, showing an annual death-rate equal to 34 per 1000 of the population; 13 were fatal cases of small-pox, a further increase upon previous weeks.

In London 2132 BIRTHS and 1437 DEATHS were registered last week. After making due allowance for increase of population, the births exceeded by 13, and the deaths by 92, the average numbers in the corresponding week of the last

Zymotic diseases caused 418 deaths last week, including 245 from small-pox, 23 from measles, 34 from scarlet fever, 6 from diphtheria, 32 from whooping-cough, 30 from different forms of fever (of which 4 were certified as typhus, 12 as enteric

[23.]

or typhoid, and 14 as simple continued fever), and 23 from diarrhea; thus to the seven principal diseases of this class 393 deaths were referred last week, against 393 and 371 in the two preceding weeks. The fatal cases of small-pox, measles, scarlatina, and whooping-cough each showed an increase upon the previous week.

The fatal cases of small-pox in London, which in the three previous weeks had declined successively from 267 to 257 and 229, rose again last week to 245. In seven permanent and temporary hospitals for this disease 108 deaths were recorded last week, of which 53, 26, and 16 respectively occurred in the institutions at Hampstead, Stockwell, and Homerton. After distributing these deaths, it appears that 39 deaths belonged to the West group of Districts, 74 to the North, 21 to the Central, 26 to the East, and 85 to the South. The fatal cases in the North Districts were not quite so numerous as in the previous week, while they showed an increase in each of the other groups of Districts. The greatest fatality was shown last week in Pancras, Walworth, and Battersea; in the latter sub-district, of 28 deaths 13 resulted from small-pox, equal to an annual rate of 12 per 1000 of the population.

To different forms of violence 45 deaths were referred last week; of these 29 were accidental, including 14 by fractures and contusions, 2 from burns and scalds, 6 from drowning, and 6 from suffocation, and one from poison. Four of the deaths from fractures and contusions were of adults, and one of a child, run over by vehicles in the streets; the victims of these fatal accidents since the 1st of January last now number 90. Eleven cases of suicide and three of homicide were

registered in the week.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.83 in.; the highest reading was 30.00 in. on Monday evening, and the lowest 29.72 in. on Thursday afternoon. The mean temperature of the air was 49°.9, or 7°.5 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The highest day temperature in the shade was 66° · 8 on Saturday, the lowest night temperature 38° · 7 on Monday; the entire range of temperature in the week was, therefore, 28° · 1. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 135°8 on Monday. The mean temperature was considerably below the average on each day of the week. The difference between the mean dew-point temperature and air temperature averaged 7°.5. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 56° 3 last week. The mean degree of humidity of the air was 76, complete saturation being represented by 100. The general direction of the wind was N. and N.E., and the horizontal movement of the air in the week averaged 13 miles per hour. Rain fell on Sunday, Friday, and Saturday, but only to the amount of ·31 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 47° 0 in Newcastle, to 51° 6 in Portsmouth, Liverpool, and Salford; the lowest recorded night temperature was 36° 0 in Hull, and the highest day temperature in the shade 70° · 2 in Leicester. Rain was measured last week in most of the large towns furnishing returns, but the fall was very light, and ranged from '01 of an inch in Liverpool, to '35 in Wolverhampton.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 9°.9; the highest day temperature in the shade was 19°.3, the lowest night temperature 3° 7, the highest temperature in the sun was 39° 0. The mean temperature of the corresponding week in 50 years averaged 14°·1, or 4°·2 above the temperature of last week. The wind blew at the rate of 20 kilometres an hour, and the rain-fall measured '28 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 192,440 cubic metres, and at Barking 256,097 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the TWENTY-THIRD Week of Ten previous Years.

Total Births Males Females .	1861 1847 963 884	1862 1793 915 878	1863 1848 971 877	1864 1923 985 938	1865 1956 1008 . 948	1866 1959 1006 953	1867 1922 965 957	2016 1042 974	1869 1940 1002 938	2064 1058 1006	Average of 10 Weeks.  1926.8  991.5  935.3	1871 2132 1080- 1052
Total Deaths  Males Females .	1101	1114	1214	1285	1289	1383	1103	1160	1305	1273	1222·7	1437
	566	595	607	661	662	676	559	599	687	672	628·4	756
	535	519	607	624	627	707	544	561	618	601	594·3	681

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

TABLE 2. LONDON.		OLFAR	TIVE	LADI	E UI	IVESU!	110 11	t the .	Liast 1	HIRTE	EN W	EERS.	
13/26	Mar. 18.	Mar. 25.	Apr.	Apr.	Apr. 15.	Apr. 22.	Apr. 29.	May 6.	May 13.	May 20.	May 27.	June 3.	June 10.
Total Deaths	1576	1665	1564	1493	1722	1578	1469	1522	1341	1486	1401	1393	1437
Deaths under 5 years of age - Deaths 5-20	616 150	643 151	613 139	573 157.	670 174	583 167	582 158	568 183	519 142	594 152	485 153	513 137	548 150
Deaths 20—40	259 251 256 - 44	279 276 264 .52	251 241 271 49	262 237 197 : 67	291 262 249 76	277 244 258 49	248 226 212 41	276 253 193 49	232 189 213 46	260 214 207 45	270 227 217 49	242 236 223 42	271 218 219 31
Deaths from Small-pox ''', Measles 'Scarlet Fever - ''', Diphtheria - ''', Whooping-cough ''', Typhus fever	185 13 33 3 55	205 10 36 6 48 12	192 13 33 6 41	214 15 37 6 53 8	265 6 40 4 66 8	276 13 27 4 44 11	261 12 30 7 45	288 17 29 4 36	232 16 35 2 25 11	267 11 28 8 43 9	257 23 28 2 48	229 16 25 10 28 10	245 23 24 6 32 4
", Enteric (or Ty-) phoid) fever - phoid) fever - phoid) fever - phoid f	16 17 9	14 6 9	13 11 14	11 10 7	14 9 6	15 7 15	13 14 14	14 13 13	9 4 13	18 7 22 2	8 8 12	20 13 20 1	12 14 23
n Phthisis n Bronchitis n Pneumonia - n Heart Disease -	178 209 77 67	205 224 94 79	162 193 72 69	181 149 67 81	182 189 84 66	171 145 80 70	158 133 72 64	183 123 58 66	154 108 50 71	170 100 62 53	154 95 52 57	148 81 58 64	188- 93 62- 68
Mean Temperature of the Air	41.7	47.1	43.8	43.1	48.3	50.0	50.7	49.7	47.6	50°·1	56.7	53.9	49.9
Mean Temperature of the Water of the Thames -	45.2	44.4	47.5	45.7	47.0	50.8	51.9	52.7	53.2	52.4	55.6	59.1	56.3
Humidity of the Air 🔑	- 81	82	75	- 76	81	89	85	.74	76	73	72	777	76
Rain-fall in inches	0.58	0.02	0.03	0.01	0.36	1.75	0.80	0.20	0.15	0.16	0.55	0:10	0.31

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by F. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 10th day of June 1871, in the following large Towns.

						0 0					_
CITIES	Area	Estimated Population	Persons	Birtus registered	DEATHS registered		TURE OF		TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FAI
BOROUGHS.	Acres.	in the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 10th June 1871.	during the Week ending 10th June 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Cm
Total of 20 Towns in the United KINGDOM -	213,281	7,336,961	34.4	5037	3480	70.2	35.5	50.3	10.11	0.11	0
LONDON	77,997	3,258,469	41'8	2132	1437	66'8	38°7	49.9	9.94	0:81	0
PORTSMOUTH	9,513	125,464	13'2	; 68	32	67.2	39.8	51.6	10.89	0.10	0
Norwich	7,472	81,787	10°9	60	33	63*0	3810	47.2	8*44	0.21	0
BRISTOL	4,688	173,364	37.0	117	62	- ;	_				
WOLVERHAMPTON -	3,387	74,438	22.0	53	25	63.0	36.7	49.3	9.61	0.35	6
BIRMINGHAM	7,831	378,574	48.3	262	154	63*7	38*5	50°3	10.17	0.22	0
LEICESTER	3,200	101,367	31.7	85	42	70.2	37.7	50'8	10.44	0.07	0
NOTTINGHAM	1,996	90,480	45.3	79	32	65.2	37.5	50.7	10.39	0.05	0
LIVERPOOL	5,108	526,225	103'0	289	317	66*2	41°4	51.6	10.89	0.01	0
MANCHESTER	4,486	379,140	84.5	316	206		- 4		-	-	
SALFORD - \	5,172	123,851	23*9	127	91	65.7	38*4	51.6	10.89	0.04	0
BRADFORD -	6,590	148,030	22.5	82	73	62.0	38°0 .	49.6	9.78	0.00	-0
LEEDS	21,572	266,108	12.3	176	115	61.0	41.0	49.8	9.89	0.00	0
SHEFFIELD	22,830	255,247	11.5	202	111	63.0	41.5	49.8	9.89	0.02	.0
HULL	3,562	135,195	38.0	84	58	63.0	36.0	48.1	8'94	0.02	0
Company	9.900	700 00	07.0	. 04	00						
SUNDEBLAND NEWCASTLE-ON-TYNE	3,306 5,336	103,037 136,293	31·2 25·5	94	63 93	58.0	41'0	47.0	8:33	0.00	
EDINBURGH	4,427	179,944	25 5	136		61.7	40.0	50.2	10.58	0.00	0
GLASGOW	5,063	477,627	94.3	393	314	01 7	90 0	50 5	10 20	0 20	1.0
DUBLIN	9,745	322,321	33.1	172	136	68.4	35.5	55.0	12.78	0.15	0
	-,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									1

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d April, will probe available before the middle of the year, and will then be substituted for these estimates,

Table 2.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the ending Saturday the 10th day of June 1871.

					_								
	ANNUAL			:	Th	e DEAT	THS reg	istered	in the	Week in	nelude		
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mon- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.
Total of 17 Towns -	24	2944	663	500	362	103	76	14	69	80	45	102	195
London	23	1437	284	250	245	23	34	6	32	30	23	- 45	98
PORTSMOUTH	1 -0	32	8	3	-	- 1	1	-	. 1 .	-	-	-	3
Norwich	21	33	8	11	-	-	-	-	-	-		1	4
BRISTOL	19	62	18	13	` in	1	1	-	1	1	-	3	4
WOLVERHAMPTON -	18	25	7	3	1	-	-	-	-	1	_	2	5
BIRMINGHAM	21	154	44	24	-	30	3	5	8	3	8	6	11
LEICESTER	22	42	12	9	-	1	3	-	-	1	1	- 4	3
NOTTINGHAM		32	7	13	-	-	1	-	-	-	-	1	2
LIVERPOOL	31	317	74	60	41	12	12	2	7	19	5	15	20
MANCHESTER	1 =0	206	43	40	10	9	2	1 -	3	8	3	8	17
SALFORD	38	91	24	9	7	14	1		4	1	1-	2	5
BRADFORD	26	73	21	.9	1,	-	6	-	8	-	1	1	
LEEDS	23	115	80	21	1	1	3	-	2	7	2	2	3
SHEFFIELD	23	111	83	17		. 2	3	1	3	6	4	1	8
HULL	- 22	. 58	14	- 6	-	9	1	-		2	1	6	7
SUNDERLAND	32	63	17	4	26	944	5	-	1		-	2	2
NEWCASTLE-ON-TYNE -	- 36	93	19	8	30	-	-	4	2	1	1	7	8
DUBLIN - * *	- 22	136	21	25	2	-	4	-	4	8	3	2,	2

TABLE 5 .- DEATHS in LONDON Registered in the TWENTY-THIRD Week of the Year 1871.

TABLE 5.—I	JEATHS	111 1	ION)	JON	ne	gist	ere	G III	the TWENTY-THIRD W	eek or	the 1	tear	-10	071.			
	reek 31-70.	S	In t	he V	ek June	endi 10, l	ng 871.			eek 11-70.	S	In t	he W	Veek June	endi	ng 1871.	
	Averages of the Twenty-third Week in the 10 years 1861-70		Dea	ths o	f Per	sons	of			Averages of the Twenty-third Week n the 10 years 1861-70		Deat	ths o	f Per Age	sons	of	
CAUSES OF DEATH.	verage anty-tl	ALL AGES.		der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	verage nty-th	ALL AGES.	Und 20		r 40.	r 60.	r 80.	and
	Twe	Mean			under 40	under 60	and under	o Years a		Twe	Mean		-	under	40 and under	60 and under 80	Years and upwards.
Mean Temperature -	58*6	Tem.	0-5.	5-20.	20 and	40 and	60 and	Ndn nbw	Mean Temperature -	58.6	Tem. 49.9	0-5.	5-20.	20 and	40 and	60 and	Mdn nbw
ALL CAUSES	1222*7	1437	548	150	271	218	219	31	9. Stricture of Intestines -	*5	2	-	1	_	1	-	-
SPECIFIED CAUSES	1211 8	1432	546	150	271	217	217	31	10. Fistula	6:0 1 4:2	6 - 4	2	17	- 2	1	3	-
I. ZYMOTIC DISEASES. ORDER 1.						ı			15. Liver Disease, &c	3.7	8 14	2	1 1 1	3	2 1 7	4	-
1. Small-pox 2. Measles 2. Searlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy 6. Croup	17:4 41:0 47:7	245 23 34	88 22 23	8 2	74 1 2	19	- -	-	16. Spleen Disease, &c ORDER 5.	-4	-	-	_	_	-	-	-
4. Diphtheria	8.6	6 - 4	4	Ţ.	-	-		E	1. Nephritis	8'1	1 - 2	-	=	1 -		- 2	-
7. Whooping-cough 8. Typhus	53°1 43°6 {	82 .4 12	31 1 3 3	1 3	3	8	2 1 2		4. Diabetes	1:9 1:0 1:2 6:0	1 1 2	- - 1	-	1	1 - 5	1 2	=
- Simple continued Fever - ) 9. Erysipelas   10. Puerperal Fever (Metria)	5.8	12 14 14 14	3 5 -	6	3 2 1 1	5	2 -	-	7. Kidney Disease, &c ORDER 6.		10	1	1	1	-5		-
11. Carbuncle	2.5	-	=	-			=	1	1. Ovarian Dropsy 2. Uterus Disease, &c	4.6	4			2	1	1	
14. Diarrhea – – – – – – – – – – – – – – – – – – –	23.7 1.3	23 1 1	16	1,1,1,	- 1	1 -	4	-	ORDER 7.  1. Synovitis (Arthritis) - 2. Joint Disease, &c	·1 4·7	9	4	3	-1	-	1	-
7. Remittent Fever	6.8	4	-	.3	=	-	ī	-	ORDER 8.	2·3 1·4	4	Ī	-	1	2	1	-
ORDER 2.  1. Syphilis  2. Stricture of Urethra -	8.2	8 1	7		1	- 1	-	-	2. Ulcer	9					_	-	-
3. Hydrophobia	i	-	=	-	Ξ	-	Ξ		IV. DEVELOPMENTAL DISEASES.								
ORDER 3.  1. Privation  2. Want of Breast-milk -	6:9 2:4	3	- 3 9	7	-	-		1.1	ORDER 1.  1. Premature Birth 2. Cyanosis	19.4	23 3	23 3	-	-		-	-
<ol> <li>Purpura and Scurvy</li> <li>Alco-{ a Del. Tremens - holism { b Intemperance -</li> </ol>	2·1 1·9	3 -1 1	- 3	=	=	- 1	1	1 4.1	3. Spina Bifida 4. Other Malformations - 5. Teething	1·1 14·1	2 15	2 15	-	-		-	=
ORDER 4. 1. Thrush	3.9	2	2	=	=	=	-	-	ORDER 2.	•2	-		-	-	-	-	-
I. CONSTITUTIONAL DIS ORDER 1.						_			2. Childbirth (see Puerperal ) Fever)	4.9	3			-8		-	
1. Gout	1:5	1 11 23	2	1		1 2 13	6 8	- 1	1. Old Age ORDER 4.	43.9	34		_			18	16
5. Mortification	3.9	23	-	=	1 -	1	1	7 17	1. Atrophy and Debility -	53.7	57	44		2	2	9	
ORDER 2. 1. Scrofula	10°1 18°4	10 30	7 28	1 2	-	-	2	-	V. VIOLENT DEATHS, &c. ORDER 1.								
3. Phthisis	164·2 33·3	188 26	5 22	23 4	102	49	9	-	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions 2. Wounds	17:4	14	Ę	1	3	8 -	5 -	2
ORDER 1.	10.1	17	10		1		2		3. Burns and Scalds 4. Poison 5. Drowning	4·2 1·3 8·8	2 1 6 6	1 - 1	8	1 1 1	1	Ē.	Ξ
2. Apoplexy 3. Paralysis 4. Insanity	13°1 30°9 26°2 2°1	17 48 33	10	1 -	6 3	12 5 2	19 23	2	6. Suffocation 7. Otherwise	1.6	6 -	4				1 -	
5. Chorea 2 -	5.5	2 1 5 56	- 55	1 1	2	1	2	-	ORDER 3. (HOMICIDE.)								Ш
7. Convulsions 8. Brain Disease, &c ORDER 2.	17.9	16	1	-	5	3	5	2	1. Murder and Manslaughter ORDER 4.	2.1	3	2	1	-		-	
1. Pericarditis	1.7 2.1 50.9	2 3 68	- 1	- 5	1 2 17	1 22	1 21	- 2	(SUICIDE.)  1. Wounds {Gunshot - Cut, Stab -	1.8	1	-	-	ī	1	-	-
ORDER 3. 1. Laryngitis	6.6	*5 93	4 38	-	1 4	18	28	-4	2. Poison	1.5 1.7	1 1 2 4 2	=	- 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	-
4. Pneumonia	80°8 3°2 56°8 5°6	62 10	36	3	7 1 1	10	1 6	1 - 1	5. Otherwise ORDER 5.		1	-		-	1	_	-
6. Lung Disease, &c ORDER 4. 1. Gastritis	12.2	8	4		-	3 2	6	_	(Execution.) 1. Hanging	•1	-	-	-	**	-	-	-
2. Enteritis	1.5 6.2 5.7	8 4 4	1	1	1 1 -	1 - 2	1	-	Violent Deaths (not classed)	•1	2	1	-	-	-	1	-
5. Ulceration of Intestines - 6. Hernin - 7. lleus -	2.0	2 2		-	1	ī	1 1 2	-	Sudden Deaths (Cause un-) ascertained)	2.9	-	-	-		-	-	-
8. Intussusception	8,0	3	1	E	1	-	1	-	defined	8.0	5	2			1	2	

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

194 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

		an l	80				The I	DEATH	IC WAS	istere	1 in 41			_	17 00	r end	
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total Births during the Week.	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON · · ·	2,803,989	2132	1437	284	250	245	23	34	6	32	4	12	14	23	45	98	328
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	458,125 618,210 388,321 571,158 773,175	312 467 233 434 686	235 390 138 246 428	49 63 25 57 90	45 60 26 44 75	19 117 7 17 85	4 2 2 3 12	5 10 3 4 12	8 1 1	9 7 5 6 5	3 - 1 -	2 4 1 1 4	3 2 1 5 3	7 4 1 7 4	11 10 2 8 14	18 24 10 23 23	49 119 40 39 81
West Districts.   St. Mary Paddington   WH     St. John Paddington   H	39015 36769 51910 18196 5415 19104 15539 21654 1989 21885 1989 12885 19773 12885 37483 30780 10773 13966 10607 17425	40 13 46 19 2 26 18 13 19 11 6 12 29 16 20 - 9 3 10	15 14 29 6 2 15 16 6 24 16 6 4 28 14 20 5 3 1	3 1 10 1 1 2 1 5 7 - 5 4 4 7 - 2 6 6 1 3	25552 - 311 29 2 - 114 - 33 311 - 2	1 1 1 1 1 3 8 2 2 1 1 1 1 2 2 3 3 3	1 1 1	2		12 1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	211111111111111111111111111111111111111	1 1 1 1 1 2 2 - 1 1 1 1	1 1 2 2 1 2 1 2 1 1 1	36631 - 4 - 10 - 342311 - 2 - 1
St. Mary Marylebone H	22493 34913 32540 19106 84927 29371 27808 39099 23266 44317 75442 79899 6603 5483 24265 31481 15458	23 23 24 12 22 15 12 16 10 87 69 98 7 3 10 27 20	8 19 18 60 12 15 12 12 20 31 58 39 5 1 15 14	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 3 7 - 1 5 1 1 7 4 6 11 1 1 2 4 2	2 2 53 2 2 2 5 1 8 15 3 	1	21 22 2 2	1	1 1 1 - 2	111111111111111111111111111111111111111	1 - 2	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 4	12 - 2 - 12 42 62 1	56 6 2 10 3 17 1 1
St. George Bloomsbury St. Giles South WH	17392 19483 17201 11618 11071 10346 15207 12012 12012 1212 19152 17220 11504 11780 11780 11780 11780 11780 11780 11780 11780 11780 11780 11780 11780 11780 1180 11	10 27 9 5 1 2 3 8 10 3 20 15 14 16 13 16 17 8 6 5 5 1 2 2	5 13 2 5 4 5 5 13 7 14 2 3 4 4 4 3 5 6 6 5 2 13 4 - 21 1 3	21 111 1 1 312431 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 1 1 1 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2 2 1	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		111111111111111111111111111111111111111		111111111111111111111111111111111111111	1			2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 - 10 - 13 13 13 13

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H.—Hospital;

L.—Lunatic Asylum;

w-A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-nox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 195

PEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 10th June 1871.

Saturday, 10th June 1871.																	
		during	during				The D	EATH	s regis	tered	in the	Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total Birrie du	Total DEATHS du the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Instl- tutions.
East Districts.																	
Holywell Shoreditch St. Leonard Shoreditch HL†	17313 19188 26516 25777 23260 17310	7 10 25 19 15	8 4 3 8 9 5	1 2 2 2 1 2	1 3 1	1 2 - 1 -	11111	111111	111111	111111	1 -	1	1	1 1 1 -		111111	1 3 - 3
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	19 21 17 22	6 18 9 5	2 7 3 1	3 - +	2 3 -			1.1.1	1		1111	1111	1 1 -	1111	1111	
Artillery Whitechapel Spitalfields	6557 15700 15892 12122 8062 11166 9971	3 9 12 8 4 6 4	4 6 17 3 13 2 6	1 3 1 - 1 2	8 1	1 - 1	1	111111	пітп	1117111		1111111	1	1	1 2 -	1 2 2 -	- 8 12
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	24 19 4	6 7 8	3 3 -	1	1.1.1	111		-	ī	-		? <del>-</del> -		111	1 - 1	3
Shadwell $W-$ Rateliff $WH$ Limehouse $W$	12537 16874 27161	9 7 18	2 8 9	- 2 1	1 2 1	- 1	111	 1		1 -	=		- 1	111	1 1 2	1,	i -
Mile End Old Town West Mile End Old Town East WwH -	33747 39317	21 32	10 22	2 2	3 6	1 2	ĭ -	1	- :	1	-	-	-	-	-	5	3
Bow WwHL† Poplar WH	35667 43529	58 30	34 19	8 4	6 5	1 -	1 -	ĩ	- 1	1 -	-	-	1 -	ĩ	2	2 5	7
SOUTH DISTRICTS.  Christehureh Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	14 11 11 15 11 19 27 14	6 5 11 5 7 11 40 11	2 1 2 2 3 2 5	1 3 - 1 - 2 5 3	- - 4 - - 3 9	1 1 2 -	1111121	1	11111111			1111111	1 1	1 1 2	1 8 8	10 4
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W St. James Bermondsey Rotherhithe W	7663 11393 16696 16505 25154 24502	3 13 10 36 25	14 3 11 9 10 10	1 5 1 2	3 3 3 3	- 4 2 1		1	111111	11111	131111	111111	111111	111111	31111	3 - 1 - 1	14 3 2
Waterloo-road lst H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	10 16 18 37 22 23 26 8	3 9 7 26 15 10 43 2	2 2 3 3 3 4 3	1 2 5 1 1 4 1	1 6 1 2 29	111	1	111111111	1 2 - 1 1	1111111	1111	11111111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 -	8 - 27 -
Clapham HL	20894 19600 13346 6481 10082	22 43 14 10 6	9 28 8 2 2	2 6 1 -	1 7 2 1	13 - - -	11111	2 -	111111	11111	11111	11111	1	1	1 2 -	2 2 -	4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1723 21297 28135 20333	3 21 32 18	1 11 20 9	1 5 6 2	2 3 1	2 - 2	1 1 1	1				1111	- 1	1111	- 1 1	2	1 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH Greenwich East	37834 8139 21696 18306	30 4 18 10	17 2 7 5	4 1 1	4 - 2 3	3 -	1	1111	1111	000		1		1111	1	1111	- 2
Eitham Lee Lewisham Village W Sydenham	3009 11003 7372 10595	8 4 12 8	6 1 4 6	1 3	- 1 2 1	1	3	1 1 1 1	1111	1111	1111	1	1111	1111	1111	1111	1111
Charlton H Woolwich Dockyard Woolwich Arsenal H	9276 22919 18776 11332 13170	3 13 12 7 14	2 8 1 6	1 1 1 3	2 1 -	11111	1	1	11111	11111		11111	ī -	11111	11111	11111	2 - 2

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

Holborn Workhouse is in Hoxton New Town sub-district.

Mile End Old Town Eastern sub-dist. and
Stepney - ,, ,, Bow sub-district.

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district,
The Strand - " Tottenham-court sub-district,
London City - " Islington East.
Do. do. - " Hackney sub-district.

# TABLE 7.—METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 10th JUNE, 1871.

3							Meteor	rologi	cal	Obs	ervatio	ms.							f1
				.anozO	:::	:	::::	1:	26		hose dry	five faily	sults the	well I fiy	r 31.	d as	oring th of	Col.	ased was
	RAIN.	Collected	Gauge	surface is 5 in. above the ground.	Inches 0.06 0.00	0.00	0.00	Sum 0.31	25		sidered to be 159 feet above the mean considered to be coincident with those The observations are taken at 9h. A.M. readings of the barometer, the dry	S., from the mean d	The res	P.M., as well stermined foy The average	ical obse	nderstoo	lf-registe	of Lieut.	th; decre
	-		Amount of	Horizontal Movement of Air each day.	Miles. 255 369	282	463 380 260 145	Sum 2154	24		feet abc coincider are taker	converte sher, F.R. 1848. Th	edition.	: and yn. ers, as de to each.	ing 1863,	igner, a	use of se	rmission nning of	on the 5
		ers.			lbs. 0.1 0.7	0.5	0.0	:	23		be 159 to be rations of the	es, are s Glais part 1,	ourth ted in	h. P.M. momef pplied	the the	ons ar	olice S	by per	P.M. h. A.M.
	J	emomet	Processes on equate foot	Least.	lbs. 0.0 0.0	0.0	0.0	, :	55		ed to sidered observadings	se tim y Jame rans., 1	bles, Ferhibi	oon; 3 m ther seing a	from 50 year	servati	ained l	ship, ice. at th	by 9n.
Į	WIND.	from A	S. Dracent	Great-	lbs. 2.2 10.9	3.1	5.5 0.6 1.5	:	21		onsident re con r. The	at the sceed by phil. T	cal Ta	M.; n ninimu ctions]	laisher in the	ind the gical ob- ight.	Scorpi	ard the	7.00 in. 29.82 ir
		As deduced from Anemometers	Osler's	P.M.	N. by E.	ż	n. n. n.&ene. n.&ene.		20	NOTES	a barometer is considered to be 159 feet above the mean the barometer are considered to be coincident with those andard barometer. The observations are taken at 9h. A.M.; The The means of the readings of the barometer, the dry	r, observed ctions ded er 31.—See	Squeed from Lygrometri or the nu	ad at 9h. Anum and noone	ed by Mr. Creenwich,	borne in m meteorologi tht to midn	Thames is e of the	tor on bo Metropolitied from 2	eased to 30 preased to
			O Discosion	A.M.	N.&.NNE	ż	N. & N. N. & NNE	Z	19.		The height of the cistern of the barometer is considered to be 159 feet above the mean bird of the sea. The readings of the barometer are considered to be coincident with those of the Royal Society silint glass standard barometer. The observations are taken at 9h. A.M.; and 9h. P.M. The means of the readings of the barometer, the dry	9-5	daily are ughlaisher's I	observations of the dry thermometer, read at 91, A.M.; noon; 33n. P.M.; and 9n, as the results deduced from the maximum and minimum thermometers, as deaths as Persentent to the maximum and minimum thermometers, as death as enf-nearstering thermometers, the propose corrections being applied to each.	temperature of the air is that determined by Mr. Glaisher from the thermometrical observa- tions taken at the Royal Observatory, Greenwich, in the 50 years and 1885. December 31,	*In reading the 17th column it will be before in mind that+is read. "nather," and—"courer," than the average. The results of all the meteorological observations are to be understood as analysine to the civil day, or from midnight to midnight.	The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scoppin". Police Sing, at the depth of the run many contractions, the second make the	about 2 teet below the surface. The readings of these instruments are recisered directions superintendence of the resident inspector on board the ship, by permission of LieutCol. Henderson, R.B., C.B., Commissioner of Metropolitan Police.  The reading of the barometer decreased from 29 94 in. at the beginning of the week to	29.88 in, by 10h. A.M. on the 4th; increased to 30.00 in. by 9h. P.M. on the 5th; decreased to 29.72 in. by 8h. P.M. on the 5th; decreased to 29.22 in. by 9h. A.M. on the 10th; and was
	Degree	of fin- midity, complete	Satura-	repre- sented by 100.	81	82	67 69 88 84	92	18		cistern se readin s flint gla d 9h. P.	ne wet t upplicati nding 18	s or num sers by ( perature	dry ther sed from hermom	ir is tha	th column he result day, or f	of the wa	the resi B., Comn baroin	M. on the
[Under the Superintendence of the Astronomer Royal.]		Between mean tem-	perature of the day and	perature of the same day on an average of 50 years.*	-12.4 - 6.0	1.1		9.4	17		The height of the cistern of the level of the sea. The readings of the Royal Society's flint glass noon: 3h, P.M.: and 9h, P.M.	ster, and these servations e	thermomer daily tem	ons of the sults deduction to	ire of the a	ling the 174 average. T	nperature c	et nerow undence of on, R.E. C. or the	ov 10h. A.M n. by 8h. P
ronom	DIFFERENCE	Point Ire	ture.	Least.	2.8	1.1	0.080	3.1	16		the height the Rotte of the Rotte Rotte Rotte Rotte Rotte Rotte Rotte Rotte Rotte Structure Structure Rotte Rotte Structure Structure Rotte Rott	ly valu	v point t bulb mean	ervatic	perati	In read	he ten	out z re perinte indersc	83 in. 1 29.72 i
the Ast	DIF	Between Dew Po	and Air Temperature.	Great-	13.3	14.3	16.3 11.8 6.7 14.4	14.2	15		lev of t				tion	tha	the		62.63
nce of		Betwe	Air	Mean daily value.	5.6	5.3	10.4 9.6 3.6 4.7	7.5	14			ıt. Rain	revalen	. A few		 Sh		the early	
intende		In the Water of	ich, by	meters.	55.5	55.5	55.0	54.7	13			s at nigh	cloud were prevalent	A very fine night.		e morning	midnight	Rain fell in the early h. P.M.	
s Super		In the V	Greenwich, by	Thermometers.	59.6	58.6	58.4 57.4 56.4 56.0	57.9	12	HERE		cloudles	of cloud	A very		fell in th	.M. and	s. Rair ad 6h. P.	
Inder th	TERS.	Lowest on the	shownby		30.2	31.1	40.9 44.8 40.5 48.2	37.8	11	AND ATMOSPHERE		generally		ternoon.		thin rain	8h. 30m. 1	e at tim	
2]	THERMOMETERS.	Highest in the sun, as	a self-regis- tering	Thermo- meter with blackened bulb in vacuo, placed on the Grass.	109.7	89.5	97.3 81.8 74.2 123.3	101-7	100	SKY AND A		the afternoon; generally cloudless at night, morning.	. Large amounts	Generally overcast till the afternoon.	out.	ally overcast. A little thin rain fell in the morning.	Rain fell between 8h. 30m. P.M. and midnight.	Cenerally cloudy, but variable at times. Rain Riconing, and very heavily between 3h, and 6h, P.M.	
	ADINGS OF	Dew Point.	Moss		39.3	44.6	38.6 46.8 49.8	45.4	6	702		ast till the after ng the morning.	A very fine day.	overcas n fell ab	est throughout.	overcas		cloudy,	
	READI		Moon	A A	44.9	49.9	49.0 50.4 54.5	49.9	00	,		Overcast fell during t	very f	enerally s of rai	Overcast t	Generally	Overcast.	ning, ar	
		Dry.	Bongo		3 17.9	3 21.7	12.5	9 16.9	1					ď				#	
			-	- Low-	39.3	0 40.3	5 45.1 2 46.0 8 49.5	5 43.6	9			ith weak	norning	ally till h. P.M.	th weak	fternoor	ısion at	tension Spark 3h. P.M	0
	1 ~			High-	9 57.2	0 62.0	4 57.6 59.2 6 59.2 6 66.8	5 60.5	20	ICITY		tive, we early	n the r	gener	tive, w	n the a	reak ter	ariable he day.	
	BARO-	Mean	_	and reduced to 32 degr. Fahren heit).	in. 29.859 t 29.976	29.870	29.754 29.734 29.776 29.806	29.825	4	ELECTRICITY		and negr uring th	Weak negative in the morning, oderate positive at night.	negative rong posit	Positive and negative, with weak usion.	Weak negative in the afternoon ad at night.	Positive, with weak tension ght.	with validle of the	
	MOON.		Phases	Moon.	Greatest	:	Last Quarter	:	8	A		Positive and negative, with weak tension, during the early part of the day.	Weak negative in the moderate positive at night.	Weak negative generally tinight. Strong positive at 9h. P.M.	Positive tension.	Weak nega	Positive, night.	Negative, with variable tension, in the middle of the day. Sparks and galvanic currents at 3h. P.M. Weak positive in the morning and	t night.
				DAY.	410	. 9	100		nns.	-		4 24	- t	9 9	- t	8 81	S E	10 Ti ii	et .
		101	1011	Monte and Day	JUNE. SUNDAY .	TUESDAY .	WEDNESDAY, THURSDAY, FRIDAY,	MEANS	No. of Columns.	DATE.	JUNE.	SUNDAY .	MONDAY .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAY .	SATURDAY . I	
		/		Z	Sol	H	SEEO	1	Z			S	M	H	W	TH	FR	So.	

# WEEKLY RETURN

OF

# AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 24. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JUNE 17. [Price 1d.

General Register Office, Somerset House, 19th June 1871.

During the week ending Saturday the 17th June, 4522 births and 3270 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality in the week was at the rate of 23

deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 22 per 1000; Portsmouth 13, Norwich 22, Bristol 18, Wolverhampton 11, Birmingham 19, Leicester 23, Nottingham 18, Liverpool 26, Manchester 29, Salford 26, Bradford 26, Leeds 19, Sheffield 21, Hull 24, Sunderland 39, and Newcastle-upon-Tyne 28. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had been 307 and 362, were 358 last week; of these 240 occurred in London, 34 in Liverpool, 46 in Sunderland, 26 in Newcastle-upon-Tyne, 5 in Manchester, 4 in Salford, and one each in Bradford, Leeds, and Sheffield. The annual death-rate in the week from small-pox was equal to 4 per 1000 persons living in London, 3 in Liverpool, 10 in Newcastle, and was so high as 23 per 1000 in Sunderland. In the East Sunderland sub-district of the latter town, the registrar reports 26 deaths, all fatal cases of small-pox, and 24 unvaccinated; the weekly number of deaths from all causes in this sub-district has averaged but six in the past three years.

In Southampton the fatal cases of small-pox, which in the two previous weeks had been 16 and 26, were again 16 last week, and equal to an annual death-rate of 17 per 1000 persons living. The fatality from small-pox in Great Grimsby, although showing signs of decline, continues excessive; in the past eleven weeks of the current quarter 148 deaths from this disease have here been returned in a

population under 30,000, equal to an annual death-rate of 24 per 1000.

In Edinburgh the annual rate of mortality from all causes last week was 31 per

1000 persons living, in Glasgow 36 per 1000, and in Dublin 19.

In Paris 1250 deaths were returned in the week ending last Friday, against 1144 in the corresponding week of 1870; 29 were referred to typhoid fever, and 16 to small-pox. In Brussels 166 deaths occurred in the week ending 10th instant, and the annual death-rate, excluding on the authority of Dr. Janssens 16 deaths occurring in the city hospitals, and belonging to the extra-municipal communes, was 39 per 1000 of the estimated population.

In the City of New York 499 deaths were registered in the week ending

27th ultimo, and the equivalent annual rate of mortality was 28 per 1000.

In Bombay the deaths registered during the week ending the 23d ultimo were 305, and the mortality was at the annual rate of 19 per 1000; 37 were fatal cases of small-pox. In Madras 288 deaths were registered in the week ending 5th ultimo, showing an annual death-rate equal to 35 per 1000 of the population.

In London 1908 BIRTHS and 1349 DEATHS were registered last week. After making due allowance for increase of population, the births were 254 below, while the deaths exceeded by 17, the average numbers in the corresponding week

of the last ten years.

Zymotic diseases caused 384 deaths last week, including 240 from small-pox, 21 from measles, 17 from scarlet fever, 9 from diphtheria, 29 from whooping-cough, 22 from different forms of fever (of which 3 were certified as typhus, 13 as enteric or typhoid, and 6 as simple continued fever), and 24 from diarrhæa; thus to the seven principal diseases of this class 362 deaths were referred last week, against 371 and 393 in the two preceding weeks. The fatal cases of scarlet fever showed a considerable decline last week, while those of diarrhæa had somewhat further increased upon the numbers in recent weeks.

[24.]

The fatal cases of small-pox in London, which in the three previous weeks had been 257, 229, and 245, were 240 last week. In six permanent and temporary hospitals for this disease 101 deaths were recorded last week, of which 54, 22, and 13 respectively occurred in the institutions at Hampstead, Stockwell, and Homerton. After distributing these deaths, it appears that 20 belonged to the West group of Districts, 76 to the North, 23 to the Central, 44 to the East, and 77 to the South. The fatal cases showed an increase in the East of London, a decline in the West and South, and but slight variation in the North and Central Districts. The registration sub-districts of Somers Town, Camden Town, Islington East, Mile End Old Town East, Bethnal Green Town, Limehouse, Kent Road, St. James Bermondsey, Battersea, and St. Paul's Deptford, contributed last week the largest number of deaths from small-pox.

To different forms of violence 46 deaths were referred last week; of these 35 were accidental, including 11 by fractures and contusions, 2 from burns and scalds, 8 from drowning, 10 from suffocation (all of infants), and 3 from poison. The death of a carman, aged 45 years, occurred in St. Bartholomew's Hospital on 8th instant, the result of falling from a cart. Nine deaths were referred to suicide, and one to homicide; of the former, 3 were by poison, 3 by drowning,

2 by hanging, and one by cut-throat.

In the large Public Institutions of the Metropolis 302 deaths were recorded last week, showing that of each 100 deaths in the week 22 occurred in these Institutions, of which 9 were registered in Workhouses, and 13 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29 71 in.; the highest reading was 29 89 in. on Monday at noon, and the lowest 29 34 in. at the end of the week. The mean temperature of the air was 59° 5, nearly 10° above the mean of the previous week, and 0° 7 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was below the average on the first three days of the week, but showed an excess on the last four. On Monday the mean was 52°·8, and 5°·8 below the average, while on both Thursday and Friday it was 65°·4, and 6°·4 above the average. The highest day temperature in the shade was 77°·2 on Thursday; the lowest night temperature 47°·0 on Monday; the entire range of temperature in the week was, therefore, 30° 2. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 140°.0 on both Sunday and Wednesday. The difference between the mean dew-point temperature and air temperature averaged 4°·7. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 57°·2 last week. The mean degree of humidity of the air was 85, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air in the week averaged 7 miles per hour. fell on the last five days of the week to the amount of I '05 in., of which more than one half fell on Wednesday and Saturday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 52°·5 in Newcastle-on-Tyne, to 60°·8 in Manchester; the lowest recorded night temperature was 35°·0 in Hull; and the highest day temperature in the shade 79°·0 in Norwich. Rain was measured last week in all the large towns furnishing returns; only a quarter of an inch fell in Norwich,

while in both Sheffield and Leicester more than 3 inches were measured.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 15°·28; the highest day temperature in the shade was 25°·11, the lowest night temperature 8°·33, the highest temperature in the sun was 42°·22. The mean temperature of the corresponding week in 50 years averaged '4°·89, or 0°·39 below the temperature of last week. The wind blew at the rate of 11·2 kilometres an hour; and the rain-fall measured 2·67 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 224,972 cubic metres, and at Barking 236,574 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the TWENTY-FOURTH Week of Ten previous Years.

Total Births  Males  Females .	1861 1943 1017 926	1862 1782 900 882	1863 1995 995 1000	1864 1776 912 864	2013 1028 985	1866 1932 1000 932	1867 2162 1121 1041	2273 1175 1098	1869 1784 949 835	1999 1074 925	Average of 10 Weeks.  1965.9 1017.1 948.8	1908 959 949
Males Females .	1121	1119	1186	1296	1204	1370	1094	1195	1236	1292	1211·3	1349
	590	586	626	713	669	760	596	645	648	680	651·3	733
	531	533	560	583	535	610	498	550	588	612	560:0	616

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

												-	
	Mar. 25.	Apr.	Apr. 8.	Apr. 15.	Apr. 22.	Apr. 29.	May 6.	May 13.	May 20.	May 27.	June 3.	June 10.	June 17.
TOTAL Deaths	1665	1564	1493	1722	1578	1469	1522	1341	1486	1401	1393	1437	1349
Deaths under 5 years of age - Deaths 5-20	643 151	613 139	573 157	670 174	583 167	581 159	568 183	519 142	594 152	485 153	513 137	548 150	477 -135
Deaths 20—40 Deaths 40—60	279 276	251 . 241	262 237	291 262	277 244	248 226	276 253	232	260 214	270 227	242 236	271 218	257 229
Deaths 60—80 Deaths at 80 years & upwards	264 52	271 49	197. 67	249 76	258 49	41	, 193 49	213 46	207	217 49	223 42	219	20 1
Deaths from Smallpox , Measles	205	192	214	265	276 13	261 12	288	232 16	267 11	257 23	229 16	245 23	240 21
", Scarlet Fever - ", Diphtheria - ", Whooping-cough	36 6 48	33 6 41	37 6 53	40 4 66	27 4 44	30 7 45	29 4 36	35 2 25	28 8 43	28 2 48	25 10 28	34 6 32	17 9 29
" Typhus fever - " Enteric (or Ty-) phoid) fever -	12 14	13	. 8	14	11	10	7	11 9	18	8	10 20	12	3
" " Simple Contd fever " " Diarrhœa -	6 9	11 14	10 7	9	7 15	14	13	13	7 22 2	8 12	13 20	14 23 1	6 24
, Simple Cholera - , Phthisis , Bronchitis	205	162	181	182 189	171 145	158 133	183 123	154 108	170	154 95	148	188 93	-151 90
" Pneumonia - " Heart Disease -	94 79	72 69	67 81	84 66	80 70	72 64	58 66	50 71	62 53	52 57	58 64	62 68	60 68
Mean Temperature of the Air	47.1	43.8	43.1	48.3	50.0	50.7	49.7	47.6	50.1	56.7	53.9	49.9	59.5
Mean Temperature of the Water of the Thames -	44.4	47.5	45.7	47.0	50.8	51.9	52.7	53.2	52.4	55.6	59.1	56.3	57.2
Humidity of the Air	82	75	76	.81	89	85	74	76	73	72	77	76	85
Rain-fall in inches	0.02	0.03	0.01	0.36	1.75	0.80	0.50	0.15	0.16	0.22	0.10	0.31	1.05

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Licester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Bridled; J. McLandsborough, Esq., F.R.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered and METEOROLOGY during the Week ending Saturday, the 17th day of June 1871, in the following large Towns.

					-0 0					
Area	Estimated Population	Persons	Births registered	DEATHS registered				TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FAI
in Acres.	in the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 17th June 1871.	during the Week ending 17th June 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Com
213,281	7,336,961	34.4	4522	3270	79.0	35.0	57.2	14.00	1.33	3
77,997	3,258,469	41.8	1903	1349	77.2	47.0	59.5	15.28	1.05	2
9,513	125,464	13.2	49	32	72.2	43.2	57.5	14.16	1.47	. 3
7,472	81,787	10.9	55	35	79.0	43.5	58.4	14.66	0.24	.0
4,688	173,364	37.0	125	60	1					
3,387	74,438	22.0	38	16	74.0	44.8	56.3	13.20	1.02	2
7.831	378,574	48.3	252	141	68.1	42.4	55.9	13.28	0.99	2
	101,367	31.7	58	44	77.0	41.2	58.7	14.83	3.29	8
1,996	90,480	45'3	40	32	75.6	43.2	58.5	14.72	2.23	5
5,108	526,225	103.0	308	259	72.9	47.3	57.8	14.33	0.78	1
4,486	379,140	84.2	321	207	74.0	48.5	60.8	16.00	0.99	2
5 179	123.851	23.9	97	61	71.4	44.6	58.1	14.50	0.98	2
		22.5	83	_	70.5	43.2	58'0	14'44	1.18	3
21,572	266,108	12.3	157	97	70.0	43.0	57.3	14.05	1.75	4
22,830	255,247	11.2	172	103	69.0	43.7	56.5	13.61	3.01	7
3,562	135,195	38.0	70	62	75.0	35.0	54'6	12.55	1.21	3
3.306	103.037	31.2	57	77				-		
~						44.0	52.5	11.39	1.27	3
						42.0	53.2	11.78	1.00	2
5,063				_		43.2	57.4	14.11	1.01	2
9,745	322,321	33.1	163	118	73.9	42.8	58.8	14.89	0.15	0
	in Acres.  213,281  77,997 9,513 7,472 4,688 3,387 7,831 3,200 1,996 5,108 4,486 5,172 6,590 21,572 22,830 3,562 3,306 5,336 5,336 4,427 5,063	Area in mitter middle of the Year 1871.**  213.281 7,336.961  77,997 3,258,469 9,513 125,464 7,472 81,787 4,638 173,364 3,387 74,438 7,831 378,574 3,200 101,387 1,996 90,480 5,108 526,225 4,436 379,140 5,108 123,851 6,590 148,030 21,572 266,108 22,830 255,247 3,562 135,195 3,306 103,037 5,336 136,293 4,427 179,944 5,063 477,627	Area in Acres.  213,281 7,336,961 34 4 77,997 3,258,469 41 8 9,513 125,464 13 2 7,472 81,787 10 9 4,688 173,364 37 0 3,387 74,438 22 0 7,831 378,574 48 3 3,200 101,367 31 7 1,996 90,480 45 3 5,108 526,225 103 6 4,436 379,140 84 5 5,172 123,851 23 9 6,590 148,030 22 5 5,172 266,108 12 3 5,168 22,830 25,5247 11 2 3,562 135,195 88 0 3,306 103,037 31 2 5,336 103,037 31 2 5,336 136,293 25,5 4,427 179,944 40 6 5,063 477,627 94 3	Area in Population in the middle of the Year 1871.*  213,281 7,336,961 34 4 4522  77,997 3,258,469 41 8 1903 9,513 125,464 13 2 49 7,472 81,787 10 9 55 3,387 74,438 22 0 38  7,831 378,574 48 3 252 3,200 101,367 31 7 58 3,200 101,367 31 7 58 1,996 90,480 45 3 40 5,108 526,225 103 0 308 4,486 379,140 84 5 5,108 452,25 103 0 308 4,486 379,140 84 5 5,172 123,851 23 9 97 6,590 148,030 22 5 83 21,572 266,108 12 3 157 22,830 255,247 11 2 172 3,562 135,195 38 0 70 3,306 103,037 31 2 57 5,336 103,037 31 2 57 5,336 136,293 4,427 179,944 40 6 148 5,063 477,627 94 3 348	Area in Persons production in the middle of the Year 1871.**  213,281 7,336,961 34 4 4522 3270  77,997 3,258,469 41 8 1908 1349 9,513 125,464 13 2 40 32 7,472 81,787 10 9 125 60 3,387 74,438 22 0 38 16  7,831 378,574 48 3 252 141 3,200 101,367 31 7 58 44 3,200 101,367 31 7 58 44 1,996 90,480 45 3 40 32 5,108 526,225 103 0 308 25 5,108 526,225 103 0 308 25 5,108 526,25 103 0 308 25 5,172 123,851 23 9 97 61 6,590 148,030 22 5 83 73 21,572 266,108 12 3 157 5,172 123,851 23 9 97 6,590 148,030 22 5 83 21,572 266,108 12 3 157 22,830 255,247 11 2 172 103 3,562 135,195 38 0 70 62 3,306 103,037 31 2 57 5,336 136,293 25 5 73 72 4,427 179,944 40 6 148 107 5,063 477,627 94 3	Area in Acres.   Estimated Population in the middle of the Year 1871.*   Persons of the Year 1871.*   P	Area in Acres.   Persons production in the middle of the Year 1871.**   Persons to an 1871.**   Person	Area in Acres.   Estimated Population in the middle of the Year 1871.**   Area.   Ar	Area in Acres.    Estimated Population in the middle of the Year 1871.*   Persons of the Year 1871.*	Area in Persons and Acres.  Estimated Population in the middle of the Year 1871.  213.281 7.336.961 34·4 4522 3270 79·0 35·0 57·2 14·00 1·33  77.997 3.258.469 41·8 1908 1349 77·2 47·0 59·5 15·28 1·05  9.513 125.464 13·2 49 32 72·2 44·2 57·5 14·16 1·47  7.472 81.787 10·9 55 35 79·0 43·5 58·4 14·66 0·24  4.688 173.364 37·0 125 60 — — — — — — — — — — — — — — — — — —

<sup>\*</sup> The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3d April, will probe available before the middle of the year, and will then be substituted for these estimates.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the W ending Saturday the 17th day of June 1871.

-		chains	Daturda			· J	0 612.0						
	ANNUAL RATE				Th	e DEAT	HS reg	istered	in the	Week in	nclude		
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhœa.	Violence.	Inquest Cases.
Total of 17 Towns -	22	2720	630	448	358	91	52	14	59	71	43	79	159
LONDON	22	1349	294	251	240	21	17	9	29	22	24	46	91
PORTSMOUTH	13	32	11	5	-	_	-	1	3	1		2	3
Norwich	22	85	11	. 7	- 1	-	-	-	-	1	-	-	1
BRISTOL	18	60	13	5	1	-	1	2	2	1 .	1	3	2
WOLVERHAMPTON -	11	16	4	2	-	-	_	-	-		_	_	_
BIRMINGHAM	19	141	43	20	-	24		-	2	2	1	5	16
LEICESTER	23	44	21	6	_	1	4	ton.	_	2	2	_	3
NOTTINGHAM	18	32	2	6		-	-	-	-	2	-	1	2
LIVERPOOL	26	259	62	42	34	8	8 -		8	16	6	7	10
MANCHESTER	29	207	46	24	5.	15	4	-	-	8	4	5	13
SALFORD - + +	26	61	23	10	4	7 1	1		3	-	1	1	1
Bradford	26	73	21	8	1	1	6	- v	6	2	1	1	3
LEEDS	19	97	19	20	1	2	2		1	2	1	2	4 .
SHEFFIELD	21	103	26	10	1	5	5	1	3	6	1.	3	7
HULL	24	62	18	13	-	7	1	-	-	5	1	2	2
SUNDERLAND	39	77	9	9	46	` <b>-</b>	3	- '	1			-	-
NEWCASTLE-ON-TYNE -	28	72	7	10,	26	-	~	- 1	1	1	-	1	1
DUBLIN	19	118	24	29	1	-	1		<sub>d</sub> 1	9	1	2	5

Table 5.—Deaths in London Registered in the Twenty-Fourth Week of the Year 1871.

TABLE OF DA						,2,500					-						
	Averages of the Ewenty-fourth Week the 10 years 1861-70.	Sa	In the	ne W ay, J	eek	endii 17, 1	ng 871.			Neek Neek	Sa	In th	e W	eek o	ondin 17, 1	g 871. '	
	urth ars 186		Deat	hs of the	Per	sons	of		CATCER OF DEALEST	Averages of the wenty-fourth Week the 10 years 1861-70.	1	Deat	ns of the	Pers	ons	of	
CAUSES OF DEATH.	verage nty-fo 10 year	ALL AGES.	Un 2	der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	verag nty-to 10 ye	ALL AGES.	Une		r 40.	r 60.	r 80.	and
	A Twe	Mean			20 and under	d under	60 and under	upwards.		Twe in the	Mean			d under	i under	60 and under	y Years a
Mean Temperature	58.1	Tem. 59.5	0-5.	5-20.	20 and	40 and	60 and	80 Ye	Mean Temperature -	58.1	Tem.	0-5.	5-20.	20 and	40 and	60 and	80 Y upw
ALL CAUSES	1211.3	1349	477	135	257	229	204	47	9. Stricture of Intestines -	•7	2	-		-	-	2 1 2	
SPECIFIED CAUSES	1195.5	1342	475	135	254	228	203	47	11. Stomach Disease, &c 12. Pancreas Disease, &c	6.2	8 - 2	4		1	1	1	
I, ZYMOTIC DISEASES. OBDER 1.		240	00	:		10	,		13. Hepatitis	3°4 15°0	7 16	2 2	-	1 2	6	8	1
1. Small-pox	16.3 44.2 43.1	21 17	83 20 6	55 1 9	82 - 2	19	1 -	-	16. Spleen Disease, &c ORDER 5.	1				_	_	-	
4. Diphtheria	7.7 1.2 11.2	9 1 4	5 1 4	4		-			1. Nephritis	*8. *3 8.7	3 - 12	1 -	-	- 4 2	5 1	2	-
7. Whooping-cough 8. Typhus	54·2 47·7	29 3 13	28	1 2 3 2	2	1 4	3	-	4. Diabetes 5. Calculus (Stone) 6. Cystitis	1.7 .9 1.1	3 2 -	-	-	1 -	-	ī	-
- Simple continued Fever -) 9. Erysipelas 0. Puerperal Fever (Metria)	5'1	6 3 2 2	2 -	2	1 2	2 -	-	-	7. Kidney Disease, &c ORDER 6.	5.2	5			-	2	2	-
1. Carbuncle 2. Influenza 3. Dysentery	1 6 1 6	$\frac{1}{2}$	=	-	- 1	-	2 1 -	- - 1	1. Ovarian Dropsy 2. Uterus Disease, &c	4.5	1	_	-	_	1		-
4. Diarrhœa	33·2 2·0 •6	24	20	1 -	-	1 -	2 -	-	ORDER 7.  1. Synovitis (Arthritis) -  2. Joint Disease, &c	5.0	- 6	- 2	- 2	- 1	ī	-	-
7. Remittent Fever 8. Rheumatism 9. Other Zymotic Diseases -	1.0 6.9	6 -	Ξ	1	ī	ī	3	-	ORDER 8.	1.5	4	1	1	_	2	-	
ORDER 2.  1. Syphilis  2. Stricture of Urethra -	5.8	5	4		1	-	-	-	2. Ulcer 3. Skin Disease, &c	1:0	1	ī	_	_	-	-	-
2. Stricture of Orethra  3. Hydrophobia  4. Glanders	1.2	-	-	=	-	-	114	-	IV. DEVELOPMENTAL DISEASES. ORDER 1.								
ORDER 3.  1. Privation	7.8	Ĭ,	- 4	-	-	-	-	-	1. Premature Birth	20.5	20 3	20 3	-	-	-	-	-
3. Purpura and Scurvy 4. Alco- (a Del. Tremens - holism) b Intemperance -	7.8 1.5 1.9 1.4	2 -	1 -	-	=	-	1 -	- 1	3. Spina Bifida 4. Other Malformations - 5. Teething	1'4 1'3 13'2	17	- 17	-	=	-	-	=
ORDER 4.	2.9	2	2	-	_	-	-	-	ORDER 2.	•5				_	_	_	
2. Worms, &c I. CONSTITUTIONAL DIS.	. 2.	-	-	-	-	-	-		2. Childbirth (see Puer-) peral Fever) }	5.8	. 5	Ē		4	1	_	-
ORDER 1. 1. Gout	1.7	10	- 1	-	1	2	1 3	3	ORDER 3. 1. Old Age	40.7	39	-	_		-	18	21
3. Cancer 4. Cancrum Oris (Noma) 5. Mortification	27.3	29	-	=	7 -	14	8 - 2	- 4	ORDER 4.  1. Atrophy and Debility -	58.4	48	43	_	_	1	4	-
ORDER 2.	10.3	8	7	1 8	-	-	-		V. VIOLENT DEATHS, &c. ORDER 1.								
2. Tabes Mesenterica 3. Phthisis 4. Hydrocephalus	19.4 154.9 30.6	13 151 36	10 9 31	12 5	73	49	8	111	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions	15.6	11		3	_	5	2	1
III. LOCAL DISEASES.									2. Wounds 3. Burns and Scalds 4. Poison	8.7	2 3	-	1	- 1	5 1 1 1	1	=
1. Cephalitis 2. Apoplexy 3. Paralysis	15°0 33°2 22°3	26 45 31	9	8	7.4.5	12 7	21 16	4 3	5. Drowning 6. Suffocation	7.7 6.0 2.6	10	10	3 -	3 -	1 -	1 -	-
4. Insanity	1'7	2 -	-	-	-	2 -		1 1 1	ORDER 3. ; (Homicide.)								
7. Convulsions 8. Brain Disease, &c	7°5 42°6 16°5	49 18	49 1	1	2	3	11	-	1. Murder and Manslaughter	3.5	1	-		1		_	-
ORDER 2. 1. Pericarditis 2. Aneurism	2°3 2°1	4 2	-		2 2	2	-	- 10	ORDER 4. (SUICIDE.)  Wounds (Gunshot -	•3	_	_	_	_			_
8. Heart Disease, &c OBDER 3. 1. Laryngitis	54.9	68	1	4	15	25	22		1. Wounds { Gunshot Cut, Stab - 3 Drowning	1:2 -9 1:2	1 3 3 2		-	1 2 2 1	1 1 1	-	-
1. Laryngitis 2 Bronchitis	78·4 3·1 57·0	90 3 60	38	3	1 1 7	24 1 6	37	6 -	4. Hanging	2.2	2 -			1	1	-	-
5. Asthma ORDER 4.	4'8 10°2	11	5	1	2	1	6 3 2	-	ORDER 5. (EXECUTION.) 1. Hanging		_			_		_	
1. Gastritis	1.7 5.2 4.2 2.1	6 5 2	-	1	111	2 2	2 -		Violent Deaths (not classed)		1		_	1		_	-
4. Ascites 5. Ulceration of Intestines 6. Hernia	2.1	2 4	1 -	-	ī	3	-	1	Sudden Deaths (Cause un-)	2.9	2	1	-	1	-	-	-
8. Pertonitis	2°6 3°6 1°1	2	ī	=	1 -	-	1	-	ascertained)	12.9	5	1	-	2	1	1	-
						_	-				-	_	-	-	_	-	

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

TABLE 6. LONDON .- POPULATION, BIRTHS, DEATHS from ALL CAUSES, and from SMALL-POX, MEASLES, SCARLET

															the	_	a en	ang
			during	during	-			The	DEAT	HS re	gistere	d in		eek i	nclud	8		
REGISTRARS' SUB-DISTRICTS.		POPU- LATION, 1861.	Total Births du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
LONDON -		2,803,989	1908	1349	294	251	240	21	17	9	29	3	13	6	24	46	91	302
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS		458,125 618,210 383,321 571,158 773,175	329 462 172 871 574	184 334 141 281 409	46 57 31 69 91	32 57 28 65 69	8 109 14 32 77	1 2 2 8 8	3 3 1 5 5	6 - 3	8 5 9 5	1 1	4 1 2 6	3 - 2 -	3 7 2 5 7	6 3 8 22 7	7 11 13 44 16	30 109 31 57 75
WEST DISTRICTS.  St. Mary Paddington WI — St. John Paddington H — Keneington Town WL — Brompton H — St. Peter Hammersmith — St. Paul Hammersmith H Fulham WLLLL — Chelsea South HH — Chelsea North-west HW — Chelsea North-west L — Hanover Square — May Fair W — Belgrave HH — St. John Westminster W) St. James's Square — Golden Square W — Berwick-street — Bet. Anne Soho HH —	vih H	39015 86769 51910 18198 15151 19104 15539 21684 19899 21885 55113 57483 30733 10753 13966 10607 17428	47 10 49 9 2 19 18 10 22 12 4 5 32 29 33 2 5 8	20 7 18 9 1 7 10 9 7 8 7 8 19 16 23 1 7-6 6	3271116 244 452 - 121	3 2 2 3 1 1 1 2 1 2 2 7 1 3	111111111111111111111111111111111111111	1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		1	1	1	1 - 1 1 1 1 1 - 2 -	3 2 1 1 - 4 1 14
NORTH DISTRICTS.  All Sonls Marylebone HH — Cavendish Square — — Rectory Marylebone H — St. Mary Marylebone H — Christchurch Marylebone — St. John Marylebone — Hampstead WHH — Regent's Park Pancras — Tottenham—court wH — Gray's Inn Lane H — Somers Town — — Camden Town W — Kentish Town W — Islington West* WHH — Islington East Www — Stoke Newington L — Stamford Hill — West Hackney WwHL — South Hackney W		29952 15690 26692 22493 34913 32540 19106 34927 29371 27808 3009 23096 244317 75442 75499 66°8 5483 24265 31481 15458	24 7 14 30 16 21 14 18 15 25 19 12 40 63 73 6 5 14 22 24	13 13 13 11 11 13 61 14 14 19 9 15 16 19 88 85 1 11 11 11 29 6	2 1 1 3 4 3 2 6 1 3 2 3 4 8 7 	1 2 7 1 1 4 1 1 3 2 3 4 4 4 9 7 - 2 5 -	54 1 - 1 5 4 2 11 9 - 4 15 -	1	1	11112	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 - 22 1 1 - 12 1 1 1 1	2 - 5 1 1 8 7 5 6 3 3 17 - 17 - 17 - 17 17 17 17 17 17 17 17 17 1
CENTRAL DISTRICTS.  St. George Bloomsbury - St. Giles North - St. Giles North - Long Are - Charing Cross WH - St. Mary-le-Strand - St. Clement Danes H - St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell W - Amwell Clerkenwell W - Pentonville - Goswell-street - City-road WHHL - W hitecross-street - Finsbury - St. Botolph East London HH Cripplegate - St. Sepulchre H - St. Bride W - Castle Baynard - Christehurch - Queenlike Baynard - Clerkenwell - Allhallows Barking - Broad Street -		17392 19483 17201 11618 11071 10346 12947 19013 12947 19012 19152 17250 13079 16200 11504 17580 14778 12981 17590	11 11 6 9 8 8 8 8 7 4 4 3 3 9 3 4 4 8 10 5 10 5 6 6 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10	6 10 6 8 1 1 10 7 4 4 2 2 8 8 6 12 2 5 2 4 1 5 5 2 2 - 3 -	1662 1 21112 21331 1 1 11111 1111 1111 1111 1111 11111 11111 11111 11111 11111 11111	41221112211332211422-11221133	1 2 - 1 - 2 - 1 - 7 - 1	1	THE THE PERSON OF THE PERSON O		1		1		1	1	1	33 5 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W—Workhouse;

H—Hospital;

L—Lunatic Asylum;

w—A Workhouse not belonging to the district in which it is situated.

<sup>†</sup> Officials of Public Institutions are not included. \* The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 17th June 1871.

Saturday, 17th June 1871.												_					
		during	during				The I	DEATE	is reg	istere	d in	the W	eek in	aclude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du the Week.	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.																	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	17313 19188 26516 25777 23260 17310	6 3 18 14 14 14 10	5 7 13 8 5 8	3 3 3 1	2 8 -1 1	2 1 2 - -		1 -	11111	ī ī	111111	1	11111	111111	1 - 2	1 - - 3	1 6 - 1 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	19 28 23 17	12 26 9 17	3 7 3 5	1 5 3 5	2 1 3 4	1	1 7			1 1 1 1		1 -	- 2	3 5 1	5 13 6	10
Artillery Whitechapel Soitalifelds	6557 15700 15392 12122 8062 11166 9971	3 7 6 8 2 5 3	5 12 3 5 4 2	3 2 2 1 1	6 - 1	11111111	1 - 1		111111	1	1111111		1111111	1 - 1	1 1	1 2	8 - 3
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	19 13 5	7 4 9	1 1	- 2 2	-	1 -	111		111	111			1 -	- 1	-	- 4 8
Shadwell $W$	12537 16874 27161	11 19	7 8 15	3 - 4	3 2 1	1,	1 -	1		ĩ	-				2	2 2	1 :
Mile End Old Town West Mile End Old Town East WwH	33747 39317	25 28	10 19	3	3 5	2 5	-	1	-	1	-	-	1	-	-	-	-
Bow WwHL†	85667 43529	35 26	36 25	7 4	9 5	2 3	3 -	ī	-	1 2	-	-	-	-	3 1	4 4	13 6
SOUTH DISTRICTS.  Christchurch Southwark W	17069 19101 19652 16668 19190 22675 44463 15082	9 8 10 9 13 31 7	9 5 11 8 4 6 13 8	2 1 2 2 3 1 5	5 2 2 1 2 1	6 1 1 2 2		1	1111111		111111111	1111111	1111111	1	1	1 2 -	5111119
St. Olave Southwark H St. John Horsleydown $W$ Leather Market St. Mary Magdalen $W$ St. James Bermondsey Rotherhithe $W$	7663 11393 16696 16505 25154 24502	1 6 8 5 29 8	11 5 11 9 21 8	1 1 2 7 1	1 3 - 2 -	3 2 4	1	- - 1	- 1	111111	1	1	111111	2 -	111111	1	83 - 2
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	9 25 11 25 25 15 14 8	6 9 7 23 18 10 27 7	2 2 1 6 4 3 1	1 1 5 5 2 2	1 2 2 2 2 1 23	1111111	1	1	111	11111111	1		1 - 1 - 1	1		- - 8 - - 23
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20894 19600 13346 6481 10082	12 42 6 6 12	10 36 4 3 1	4 7 1 1	1 5 1 1	1 12 - -	1111	1 1 1 1	11111	1111		1	11111	1111	1111	1 -	5 1 -
Dulwich	1723 21297 28135 20333	3 18 29 32	18 17 8	3 5 2	3 4 1	2 1 1	1	1	1111	3		1111	1111	1 -	1111	1111	ii -
St. Paul Deptford St. Nieholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	41 3 8 9	18 3 7 8	5 1 2	2 1 1 1	4 1 1 1	1	1111	1111	-	1111			1111	1	1 -	1
Eltham Lee Lee Lewisham Village W Sydenbam	3009 11003 7372 10595	1 8 7 8	2 4 2 3	1 1	2 3 1 1	1111	1111	11,11	1111		1111	ī -	11711	1111	1111	ī -	1111
Charlton H Woolwich Dockyard Woolwich Arsenal H	9276 22919 18776 11332 18170	13 13 9 8	2 7 12 4 4	1 4 1 1	1 2 -	11111	1	- - -	11111	-	11111	1 -		11111	1 -	1 2 2 1	2 -

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand - " " Holborn Workhouse is in Hoxton New Town sub-district.

Lowdon Gity - " " Haington East.

Do. do. - " " Hackney sub-district.

Stepney - " Bow sub-district.

Stepney - " " Bow sub-district.

Stepney - " " Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

NOTES

AND ATMOSPHERE.

SKY

ELECTRICITY.

DATE. JUNE.

No.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the Royat OBSERVATORY, GREENWICH, during the Week ending Saturday, 17th JUNE, 1871. [ Under the Superintendence of the Astronomer Royal.]

											Me	eteo	ro	logica	al C
	1	CA	1	941	3-	1,3	in.		:	:	:	:	:	:	56
RAIN.	Collected	Gauge (	whose receiving	surface, is 5 in	ground,	Inches	00.0.	00:00	0.02	0.37	0.19	60.0	0.00	Sum 1.05	55
1000	1. S.	Robinsen's.	Amount of	Horizontal	Sample of the sa	41188	A	168	164	175	125	133	701	Sum 1110	4.
	neters.	A CONTRACTOR OF THE PARTY OF TH	Pressure on square foot	Almani"	24-ribs.	lbs.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	:	23
	Inemon		nbs uo		Least,	lbs.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	:	67
WIND.	from /		Pressure		Gest.	lbs.	0.1	0.3	0.5	4.0	0.2	0.0	7.0	:	21
	As deduced from Anemometers.	Osler's.			P. M.	and the second	E.& ENE. E.& ENE.	ENE. & ESE.	SSE.	SSW, SE, &	E., SE., &	S. & SSW.		Variable.	50.
			General Direction		A. M.		E.& ENE.	ENE.	ESE.	SSE. &	Calm	SW.	oE.	Vari	Mer. 19.
Degree	midity,	Satura-	tion being		by 100.		83	87	92	08	98	73	92	85	18:
B	Between	perature of	the day and mean tem-	perature of the same day	on an average of 50 years.*	(	- 4.6	8.9 -		+ 4.1	+ 6.4	+ 6.4	6.0 +	2.0 +	17
DIFFERENCE	oint		re	1000			0.0	0.0	0.0	1.5	0.0	200	0.0	0.5	16
DIFF	Between Dew Point	and	Air Temperature	Great-	est,	-	11.9	14.6	11.3	14.5	14.5	16.7	9.21	13.7	.15
	Between	1	AIF	Mean	value.	(	2.0	3.8	2.3	8.9	4.3		2.3	4.7	14
	-	mes at	ich, by	neters	The Contract of	(	53.3	92.0	0.09	55.2	56.5	56.8	28.8	55.8	13
		the Thames at	Greenwich, by self-registering	Thermometers	Highest. Lowest		56.4	57.2	9.29	0.89	29.0	59.9	4.10	58.5	12
ERS.	Lowest	Grass, as	a self-	ing	Thermo-	(	48.3	47.0	44.7	9.99	53.0	56.6	54.4	51.5	11
GS OF THERMOMETERS	Highestin	shown by	tering	meter with	placed on the Thermo-Grass.	(	140.0	131.5	1001	140.0	103.8	138.9	113.6	124.9	10
S OF 7	Dew	Point.	Mean	daily	value.		48.7	49.0	53.7	8.99	61.1	56.6	9.19	54.8	6
READING			Mean	daily	ralue.		53.7	52.8	26.0	63.1	65.4	65.4	6.60	59.5	00
R	-		Range		day.   value.	-	16.9	21.3	9.03	17.4	17.5	18.6	0.91	18.3	2
	-6	Dry.		Low- in	est.		48.3	1.0.1	2.14	21.8	0.09	9.25	0,00	53.3	9
	-			High-	est,	-	65.2	68.3	8.19	75.5	2.11.	2.94	0.1/	71.6	10
BARO-	Mean	reading	rected	duced to	Fahren-	i.	23	29.873 68.3 47.0 21.3 52.8	181.63	29.777	29.659 77.2 60.0 17.2 65.4	29.639 76.2 57.6 18.6 65.4	29.391	29.706 71.6 53.3 18.3	4
Moon.   BARO-		Phases	of	i.			In		:	:		Apogee, 29.639 76.2 57.6	:	:	60
				DAY.			11	12	13	14	15	16	17		Suu
		1871		ONTH AND DAY.		JUNE.	NDAY   11	NDAY	ESDAY .	KUNESDAY	URSDAY.	IDAY	TURDAY.	MEANS .	ot Columns

Scz TUE Тни

daily values by the application of corrections deduced by James Glaisher, F.R.S., from five great observations enting 1845, December 31.—28c Phul. Turns, part. 1948. The mean daily deep point and degree of humbility are deduced from those mean daily values of the day and dew point and degree of humbility are deduced from those mean daily values of the day and for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M. as well temperature of the air is that deformined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory, Greenwich, in the 50 years ending 1885, December 31, \* In reading the 17th column it will be borne in mind that + is read "highery," and — "bonery, than the average. The results of all the meleorological observations are to be understood as The height of the cistern of the barometer is considered to be 159 feet above the mean The readings of the barometer are considered to be coincident with those as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average of the Royal Society's flint glass standard barometer. The observations are taken at 9h. A.M.; noon; 8h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry The results thermometer, and the wet thermometer, observed at these times, are converted into mean wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition, level of the sea. Thin misty rain fell in the morning. Overcast in the morning and at night. Variable in the atternoon. Generally fine. Foggy shout by P.M. Generally overcast. Rain fell more or less heavily during the afternoon and evening. Rain fell during the early morning, frequency in the afternoon, and very heavily between lin. F.M. and miduight. Cloudy but fine at times. Lightning seen as night. Large amounts of cloud were prevalent throughout the day.

The temperature of the water of the Thames is accretained by the use of self-registering thermometers, suspended from the side of the "Sorpion" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the superintendence of the resident inspector on board the sing. by permission of Lieut.-Col. Henderson, R.E., C.B., Commissioner of Metropolitan Police. applying to the civil day, or from midnight to midnight. Rain fell occasionally. Generally overcast. Lightning observed at night.

The reading of the barometer increased from 29.80in, at the beginning of the week to 29.89 in, by mon on the 12th, decreased to 29.80 in, by mon on the 15th; increased to 29.90 in, by 90. A.M. on the 15th; increased to 29.95 in, at the end of the week.

LONDON: Printed by Grorge E. Ever and William Sportiswoode. Printers to the Oneen's most Excellent Maiesty. For Her Maiesty's Stationery Office.

Generally overcast. Rain fell very heavily between 8h. P.M. and midnight.

Negative, with variable tension.

SATURDAY .

No electricity was shown.

16

FRIDAY

Cloudy but fine. Occasional rain.

Positive, with weak tension dur-ing the latter portion of the day.

14

WEDNESDAY

Weak negative about 3h. P.M.

TUESDAY

No electricity was shown.

MONDAY SUNDAY

Strong negative, with sparks and galvanic currents in the evening.

THURSDAY .

# WEEKLY RETURN

OF

# BIRTHS AND DEATHS IN LOND

AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 25. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JUNE 24. [Price 1\frac{1}{2}d.

General Register Office, Somerset House, 26th June 1871.

During the week ending Saturday the 24th June, 5017 births and 3189 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week was at the rate of 23 deaths annually in every 1000 of the present estimated population.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 21 per 1000; Portsmouth 13, Norwich 19, Bristol 19, Wolverhampton 22, Birmingham 18, Leicester 23, Nottingham 18, Liverpool 26, Manchester 26, Salford 26, Bradford 23, Leeds 22, Sheffield 23, Hull 19, Sunderland 39, and Newcastle-upon-Tyne 29. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had been 362 and 358, further declined last week to 347; of these 232 occurred in London, 36 in Liverpool, 43 in Sunderland, 23 in Newcastle-upon-Tyne, 8 in Manchester, 3 in Salford, and one each in Leicester and Sheffield. The annual death-rate in the week from small-pox was equal to 4 per 1000 persons living in London and Liverpool, 9 in Newcastle, and was again so high as 22 per 1000 in Sunderland. There appears to have been a fatal neglect of vaccination in the latter town, as the registrar of the East sub-district in reporting 15 deaths from small-pox last week states that all of them were unvaccinated cases.

The fatal cases of small-pox in Southampton, which in the two previous weeks had been 26 and 16, further declined last week to 13; during the 12 past weeks of the current quarter 216 deaths from small-pox have been returned in this District, equal to an annual death-rate from this cause alone of 20 per 1000 of the population enumerated in April last. In Great Grimsby small-pox again caused 14 deaths last week, raising the total since the 1st April to 162, which gives an annual death-rate for the 12 weeks of 24 per 1000 of the recently enumerated population.

In Edinburgh the annual rate of mortality from all causes last week was 37 per 1000 persons living, in Glasgow 33 per 1000, and in Dublin 18.

In Paris 1106 deaths were returned in the week ending 23d instant, against 1149 in the corresponding week of 1870; Dr. Jules Worms, the Medical Officer to the Prefecture of the Seine, reports that the sanitary condition of the city is satisfactory, and that no epidemic prevails. In Brussels 120 deaths occurred in the week ending 17th instant, and the annual death-rate was 29 per 1000. In Berlin during the week ending 22d instant 708 deaths were recorded, showing an annual rate of no less than 52 per 1000; a severe epidemic of small-pox has prevailed in this city during the past three months, and of the 708 deaths in the week now under notice no less than 164 resulted from this disease, equal to an annual death-rate of 12 per 1000.

In the City of New York 551 deaths were registered in the week ending 3d instant, and the equivalent annual rate of mortality was 31 per 1000.

 $\lceil 25. \rceil$ 

In Madras 276 deaths were registered in the week ending 12th ultimo, showing an annual death-rate equal to 34 per 1000 of the population; these 276 deaths included 48 from cholera, against 4 and 23 in the two preceding weeks.

In London 1938 BIRTHS and 1296 DEATHS were registered last week. After making due allowance for increase of population, the births were 236, and the deaths 49, below the average numbers in the corresponding week of the last ten years.

Zymotic diseases caused 393 deaths last week, including 232 from small-pox, 27 from measles, 24 from scarlet fever, 3 from diphtheria, 33 from whooping-cough, 22 from different forms of fever (of which 6 were certified as typhus, 9 as enteric or typhoid, and 7 as simple continued fever), and 20 from diarrhæa; thus to the seven principal diseases of this class 361 deaths were referred last week, against 393 and 362 in the two preceding weeks.

The recent unseasonably low temperature has to a considerable extent checked the increase in the fatality from infantile diarrhea usual at this season. During the past three weeks the mean temperature at Greenwich has been only 55°·2, and the deaths referred to diarrhea in the Metropolis have been 67. In the corresponding three weeks of last year, when the mean temperature was 62°·1, the fatal cases of diarrhea were 176.

The fatal cases of small-pox in London, which in the two previous weeks had been 245 and 240, declined last week to 232. In seven permanent and temporary hospitals for this disease 106 deaths were recorded last week, of which 49, 23, and 25 respectively occurred in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths, it appears that 30 belonged to the West group of Districts, 53 to the North, 20 the Central, 38 to the East, and 91 to the South. The fatal cases showed an increase in the West and South of London, while they had declined in each of the other groups of Districts. The greatest fatality from small-pox was shown last week in Battersea, Clapham, and Southwark.

To different forms of violence 58 deaths were referred last week; of these 44 were accidental, including 14 by fractures and contusions, 7 from burns and scalds, 12 from drowning, and 9 from suffocation, of which 7 were of infants. The deaths of 3 children resulted from being run over by vehicles in the streets. During the week 8 deaths from suicide were registered, of which 3 were by drowning, and three by hanging.

In the large Public Institutions of the Metropolis 312 deaths were recorded last week, showing that of each 100 deaths in the week 24 occurred in these Institutions, of which 9 were registered in Workhouses, and 14 in Hospitals.

Dr. Frankland in his report upon the quality of the Metropolitan water supply during the present month draws attention to the following facts:—With the exception of the Southwark Company's water, which was "slightly turbid and "contained moving organisms," the samples of the Metropolitan waters have been effectively filtered. Early in the present month the waters supplied by the different companies recovered from the excessive organic impurity which they exhibited during May. As in May so in June, the worst sample of Thames water was delivered by the Southwark Company, and the best by the West Middlesex Company. The West Middlesex water, however, contained considerably more than double the proportion of organic elements present in the New River water, partly drawn from wells and springs in the chalk; and nearly five times the proportion found in the Kent Company's water, obtained exclusively from chalk wells. Dr. Hill reports more unfavourably than usual of the quality of the Birmingham water supply, which he states is evidently very imperfectly filtered.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.63 in.; the highest reading was 29.98 in. at the end, and the lowest 29.34 in. at the beginning, of the week. The mean temperature of the air was 56°.2, or 3°.8 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature showed a slight excess on Sunday, 18th instant, but was below the average on every other day of the week; on Saturday the mean was only 52°.4, and in defect by 8°.8. The highest day temperature in the shade was 72°.9 on Monday, and the lowest night temperature 47°.5 on Saturday; the entire range of temperature in the week was, therefore,

25°·4. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 143°·9 on Monday. The difference between the mean dew-point temperature and air temperature averaged 4°·7. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 61°·1 last week. The mean degree of humidity of the air was 84, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air in the week averaged 9 miles per hour. Rain fell on the first six days of the week to the amount of 1·50 in., of which more than half fell on Monday and Thursday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 52°·1 in Sheffield, to 58°·2 in Portsmouth; the lowest recorded night temperature was 38°·0 in Hull, and the highest day temperature in the shade 71°·7 in Leicester. Rain was measured last week in each of these towns; the amount varied from '90 of an inch in Hull, to 1·74 inches in Birmingham and Salford, and 2°11 in Wolverhampton.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 13° 44; the highest day temperature in the shade was 22° 72, the lowest night temperature 8° 61, the highest temperature in the sun was 44° 39. The mean temperature of the corresponding week in 50 years averaged 15° 56, or 2° 12 above the temperature of last week. The wind blew at the rate of 14 4 kilometres an hour, and the rain-fall measured 3.81 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 327,898 cubic metres, and at Barking 293,532 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

The Registrar General has to acknowledge the courtesy of the London Water Companies, who have furnished him with the average daily quantity of Water supplied for the month of May 1871: thus, according to their account, 108,692,357 galloas or 493,839 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 101.4 decalitres, rather less than a ton by weight, to each house, and 14.3 decalitres (=31.4 gallons) to each person.

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of May 1871, it may be estimated that about 89,127,733 gallons were probably used for domestic purposes, or about 25.8 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Registrar General has no means of giving a more exact estimate.

Companies.	1	f Houses, &c.	in Gallons (in Manufactures purposes other	supply of Water coluding that for s and for various er than for do- mption) during
	APRIL	MAY	APRIL	MAY
	1871.	1871.	1871.	1871.
TOTAL SUPPLY	485,734	487,198	103,593,573	108,692,357
From Thames .	225,078	226,490	54,783,246	5 <b>6</b> ,310,864
From Lea and from other Sources .	260,656	260,708	48,810,327	52,381,493
THAMES. Chelsea West Middlesex Southwark and Yauxhall Grand Junction Lambeth	27,670	- 27,838	8,173,900	8,449,400
	41,886	41,978	9,054,474	9,619,259
	78,364	78,406	16,430,892	16,432,572
	30,929	31,820	11,016,814	11,336,133
	46,229	46,448	10,107,166	10,473,500
LEA AND OTHER SOURCES. New River East London Kent	118,669	118,721	22,149,000	24,706,000
	101,852	101,852	19,352,700	19,807,000
	40,135	40,135	7,308,627	7,868,493

Note.—The Return for May as compared with that for April shows an increase of 1,464 houses, and an increase of 5,098,784 gallons of water supplied daily.

### ANALYSIS OF METROPOLITAN WATER SUPPLY FOR JUNE.

Sir,

Royal College of Chemistry, 23d June 1871.

I have the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the Metropolis during the month of June, and I append also the results yielded by the Birmingham water supply furnished by Dr. Hill.

The Southwark Company's water was slightly turbid, and contained moving organisms; the rest

of the Metropolitan samples were effectively filtered.

Early in the present month the river waters supplied to London by the Chelsea, West Middlesex, Southwark, Grand Junction, Lambeth, and East London companies recovered from the excessive organic impurity which they exhibited during the previous month. The worst sample of river water taken in June, as in May, was drawn from the main of the Southwark Company, whilst the best was again delivered by the West Middlesex Company. Even the latter contained, however, considerably more than twice as large a proportion of organic elements as that present in the New River Company's water, which is partly drawn from wells and springs in the chalk; and nearly five times as large a proportion as that found in the Kent Company's water, which is obtained exclusively from wells sunk into the chalk.

Dr. Hill reports that the water supplied to Birmingham was turbid, and that it contained a larger

amount of organic carbon than usual, which he attributes to the greater turbidity of the water caused by floating particles of vegetable matter. He adds that filtration is evidently very imper-

fectly performed.

The Registrar General, &c., &c.

I have, &c., E. FRANKLAND.

	RESULTS OF ANALYSIS	EAP	KESSEL	, 114 1	LARIS	PER	100,0				
Companies.	Date and Place of Collection:	Temperature in centigrade degrees.	Total Solid. Impurity.	Organic Car- bon.	Organic Nitro-	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sewage or Animal Contamination. (Estimated.)	Chlorine.	Total Hard-
THAMES. Chelsea	{ Cab Rank, Horse Guards }	0 13°6	24.92	•123	.016	.000	•141	.157	1090	1.70	20.0
West Middlesex -	{ Sth June, Cab Rank, Portland-road }	14.7	24.22	•118	.010	•000	•129	•139	970	1.74	20.9
Southwark and Vauxhall -	{ Sth June, Cab Rank, St. George's Church, Borough.	13.9	26.06	•192	*028	.000	140	•168	1080	1.74	20.9
Grand Junction -	{ Cab Rank, Woodstock- street.	13.6	24.66	•141	*018	•000	*121	*139	890	1.70	20.00
Lambeth	{ Cab Rank, Lambeth-road }	13.6	25.86	•141	•019	.000	*152	•171	1200	1.70	20.9
OTHER SOURCES. New River	Sth June, Cab Rank, Tottenham- court-road.	15.4	23.16	*043	.007	*000	•137	•144	1050	1.22	19.7
East London	$\left\{\begin{array}{c} \text{9th June,} \\ \text{Royal Hotel, Mile-end-} \\ \text{road.} \end{array}\right\}$	13'3	24.88	•131	015	•000	•093	108	610	1.90	20.3
Kent	{ 9th June, Deptfd. Bdge. Police Stat.}	12.5	40.04	*019	*007	•000	*358	*365	3260	2.30	29.70
Birmingham* -	6th June, Birmingham Waterworks	-	23.21	•459	*046	*003	•208	*256	1789	1.42	14.1
Column 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 8th June at the Horse Guards' cab rank had a temperature of C. 13° 6; 100,000 lbs. of it contained 24 92 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained 123 lb. of carbon and 016 lb. of nitrogen. The above quantity of water also contained 141 lb. of nitrogen in the form of nitrates and nitrites, but no ammonia; the total amount of combined nitrogen in every form was 157 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contaminated with animal matter equivalent to that contained in 1090 lbs. of average London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 1.70 lbs. of chlorine. Finally, 100,000 lbs. of the water contained 20.00 lbs. of carbonate of lime, or an equivalent quantity of other hardening or soapdestroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation transforms the hardness in the Table into degrees of hardness on Clark's scale.

TABLE 1. LONDON .- Births and Deaths Registered LAST WEEK, and in the TWENTY-FIFTH Week of Ten previous Years.

Total Births  Males Females .	1861 1749 882 867	1862 1913 942 971	1863 1879 938 941	1864 1897 973 924	1865 1949 1022 927	1866 1943 997 946	1867 2234 1142 1092	1868 2025 1024 1001	1869 2100 1080 1020	1870 2073 1075 998	Average of 10 Weeks.  1976.2 1007.5 968.7	1871 1938 1008 930
Total Deaths Males Females .	1077	1104	1191	1262	1359	1295	1052	1228	1381	1282	1223·1	1296
	561	575	619	661	705	688	531	656	698	681	637·5	662
	516	529	572	601	654	607	521	572	683	601	585·6	634

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	Apr.	Apr.	Apr. 15.	Apr. 22.	Apr. 29.	May 6.	May 13.	May 20.	May 27.	June 3.	June 10.	June 17.	June 24.
Total Deaths	1564	1493	1722	1578	1469	1522	1341	1486	1401	1393	1437	1349	1296
Deaths under 5 years of age - Deaths 5—20	613 139	573. 157	670 174	583 167	582 <b>15</b> 8	568 183	519 142	594 152	485. 153	513 137	548 150	477 135	495 131
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	251 241 271 49	262 237 197 67	291 262 249 76	277 244 258 49	248 226 212 41	276 253 193 49	232 189 213 46	260 214 207 45	270 227 217 49	242 236 223 42	271 218 219 31	257 229 204 47	248 196 189 37
Deaths from Small-pox , , , Measles , , , Scarlet Fever - , , Diphtheria -	192 13 33 6	214 15 37 6	265 6 40 4	276 13 27 4	261 12 30 7	288 17 29 4	232 16 35 2	267 11 28 8	257 23 28 2	229 16 25 10	245 23 34 6	240 21 17 9	232 27 24 3
" Whooping-cough " Typhus fever " Enteric (or Ty-)	41 7	53 8	66 8	11 15	45 10	36 7	25 11 9	43 9	48 7 8	28 10 20	32 4 <sub>4</sub>	29 3 13	33 6 9
phoid) fever - \ ,, ,, SimpleContafever ,, ,, Diarrhœa - ,, Simple Cholera -	11 14	10 7	9	7 15	14 14 —	13	13 1	7 22 2	8 12	13 20 1	14 23 1	6 24	7 20 2
, Phthisis Bronchitis Pneumonia - Heart Disease -	162 193 72 69	181 149 67 81	182 189 84 66	171 145 80 70	158 133 72 64	183 123 58 66	154 108 50 71	170 100 62 53	154 95 52 57	148 81 58 64	188 93 62 68	151 90 60 68	131 82 48 55
Mean Temperature of the Air	43.8	43.1	48.3	50.0	50.7	49.7	47.6	50.1	56.7	53.9	49.9	59.5	56.2
Mean Temperature of the Water of the Thames -	47.5	45.7	47.0	50.8	51.9	52.7	53.2	52.4	55.6	59.1	56.3	57.2	56.1
Humidity of the Air	.75	76	.81	89	85	74.	76	73	72	* 77	76	85	84
Rain-fall in inches	0.03	0.01	0.36	1.75	0.80	0.20	0.15	0.16	0.22	0.10	0.31	1.05	1.50

Note.—The population of Cities and Boroughs for 1871 (see Table 3.) is estimated on the assumption that the increase since 1861 has been at the same annual rate as between the censuses 1851 and 1861; at this distant period, however, from the last of these two censuses, it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are, however, based upon a local enumeration of the inhabited houses, it having been represented to the Registrar General by the municipal authorities that the rate of increase in those towns since 1861 has been so exceptionally great as to render the foregoing method of estimating the number of inhabitants unreliable.

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Bradford; Ed, Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne-

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 24th day of June 1871, in the following large Towns.

CITIES  AND  BOROUGHS.	Area in Acres.	Estimated Population in the middle of the Year 1871.*	Persons to an Acre. (1871.)	BIRTHS registered during the Week ending 24th June 1871.	DEATHS registered during the Week ending 24th June 1871.		Lowest during the Week.	THE AIR.  IT.)  Weekly Mean of the Daily Mean	TEMPERATURE OF THE AIR. (CENTIGRADE.)  Weekly Mean of the Daily Mean		In Centi
				18/1.	18/1.	W COA.	W CCR.	Values.	Values.	<u> </u>	
Total of 20 Towns in the UNITED KINGDOM -	213,281	7,336,961	34.4	5017	3189	72.9	37.0	54.1	12.58	1.29	3.58
LONDON :-	77,997	3,258,469	41.8	1938 ;	1296	72.9	47.5	56.2	13.44	1.20	3.81
PORTSMOUTH	9,513	125,464	13.2	61	31	71.2	47.0	58.2	14.55	0.95	2.41
Norwich	7,472	81,787	10.9	₹55 C	29	70.0	42.0	53.9	12.17	1.42	3.61
BRISTOL	4,688	173,364	37.0	112	64		******	<u>~</u>	games *		
WOLVERHAMPTON -	3,387	74,438	22.0	65	31	67.7	40*9	53~1	11.78	2.11	5'36
BIRMINGHAM	7,831	378,574	48°3	238	128	68*8	44.3	53.9	12.17	1.74	4.42
LEICESTER	3,200	101,367	31.7	79	44	71.7	44.7	54.4	12.44	1.06	2.69
NOTTINGHAM	1,996	90,480	45°3	49	82	70.7	44'5	55'1	12*83	0.88	2.49
LIVERPOOL	5,108	526,225	103.0	345	259	65*2	44.4	53°0	11.67	1.48	3.76
MANCHESTER	4,486	379,140	84.2	318	188	68.0	45.2	54.2	12.33	1.25	3.17
SALFORD	5,172	123,851	23*9	93	61	66.2	42.8	52.7	11.20	1.74	4.42
BRADFORD	6,590	148,030	22.5	183	64	70.0	44.0	53.3	11.84	1.27	3.23
LEEDS	21,572	266,108	12.3	275	110	65.0	45.0	52°6	11.44	1.35	3.43
SHEFFIELD	22,830	255,247	11.2	196	112	66.0	43.6	52.1	11.17	1.39	3.23
HULL	3,562	135,195	38.0	_ 92	50	70.0	38.0	55*3	12.94	-0.50	2.29
SUNDERLAND	3,306	103,037	31.2	81	76						-
NEWCASTLE-ON-TYNE	5,336	136,293	25.2	111	76				- 1		-
EDINBURGH	4,427	179,944	40.6	147	127	66*7	39.0	51.8	11.00	0.60	1.52
GLASGOW	5,063	477,627	94°3	401	302	69.0	43.0	54.7	12.61	0.76	1.93
DUBLIN	9,745	322,321	33.1	178	109	68.9	37.0	54.9	12.72	1.35	3.43

<sup>\*</sup> The actual numbers of the population of these cities and boroughs, as enumerated at the Census on 3d April last, will short be available; new estimates based upon these enumerated numbers will then be substituted for the above numbers.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Western Company of June 1871.

	ANNUAL				Th	e DEA	THS regi	istered	in the	Week i	nclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	MOR- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public
Total of 17 Towns -	22	2651	635	448	347	85	72	8	59	57	64	92	160	48
LONDON	21	1296	282	226	232	27	24	3	33	22	20	58	97	312
PORTSMOUTH	13	31	8	12	-	-	-	1	1	-	1	-	-	-
Norwich	19	29	. 8	10	- /	-	-	-	-	- 1	- /	-	-	3
BRISTOL	19	64	14	11		-	3	1		2	4	4	5	19
WOLVERHAMPTON -	22	31	12	8	-	-	3	,	2	-	1	-	-	(
BIRMINGHAM	18	128	30	19	-	14	1	-	7	3	2	7	12	18
LEICESTER	23	44	14	10	1	2	1	-	-	2	2	1	6	7
NOTTINGHAM	18	32	6	10	-	-	2	-	-	1	2	2	2	4
LIVERPOOL	26	259	65	m 35	36	11	12	2	-6	12	9	4	10	41
MANCHESTER	26	188	51	22	8	10	5	-	2	6	. 8	5	9	23
SALFORD	26	61	19	8	3	6	1	-	1	-	3	-3	4	7
BRADFORD	23	64	19	11	-	1	8	-	2	1	-	1	1	3.
LEEDS	22	110	28	24	-	1	4	1	1	4	7	2	6	18
SHEFFIELD -	23	112	28	18	1	6.	6	-	.2	1	- 1	2	3	İ
HULL	19	50	19	9	- /	7	-	-	1	3	1	- 1	1	5
SUNDERLAND	39	76	13	6	43	-	2	-	-	1	2	1	1	1
NEWCASTLE-ON-TYNE -	29	76	18	9	23		-	-	1	77	2	2	3	6
DUBLIN	18	109	14	25	2	1	. 2	1	4	8	1	4	,5	38

TABLE 5 .- DEATHS in LONDON Registered in the TWENTY-FIFTH Week of the Year 1871.

TABLE 31-1	DEATHS	111 1	10111		100	813		W 111	the I WENTI-FIFTH WE	CA OI	the I	Cai	10	,, 1.			
	eek 31-70.	8	In f	the V	Veek June	end 24,	ing 1871.		17271	he eek 31-70.		In t	he V	Veek Jun	endi e 24,	ng 1871	
CATTORIO ON DELLEGA	s of the		Dea	ths	of Pe	rson es	s of		Okugini on Dramit	es of t lfth W ars 18		Dea	ths o	of Per	rsons	of	
CAUSES OF DEATH.	Averages of the Twenty-fifth Week the 10 years 1861-70	ALL AGES.		der	under 40.	under 60.	der 80.	and 8,	CAUSES OF DEATH.	Averages of the Fwenty-fifth Week the 10 years 1861-70	ALL AGES.	Un 2	der 0.	under 40.	under 60.	under 80.	and 3.
	in d	Mean Tem.	5.	0.		and un	and under	Years upwards.		In the	Mean Tem.	5.	.0.		un pu	un pu	Years upwards.
Mean Temperature -	59.3	56.5	0-2	5-20	20 and	40 a	60 a	08 n	Mean Temperature -	_59°3	56.5	0-5	5-20	20 and	40 and	60 and	80 n
ALL CAUSES	1223.1	1296	495						9. Stricture of Intestines - 10. Fistula	*8	2 2	-	-	-	1 1 1	1 1 1	-
SPECIFIED CAUSES	1209.0	1293	493	131	248	195	189	37	11. Stomach Disease, &c 12. Pancreas Disease, &c 13. Hepatitis	4.0	3	3 -	1.1.1.1	-	_	-	
ORDER 1. Small-pox	17.3	232	76	69	74	12	1		14. Jaundice	16°6 °5	22 -	2	1	5 -	1 8 -	1 7	
Measles — — — — — — . Scarlet Fever (Scarlatina) . Diphtheria — — — —	42°6 49°2 10°1	27 24 3	76 25 16 1	7	1 -	1 1	- 1	E	ORDER 5.	•9	2	_	-	_	1	1	_
Quinsy Croup Whooping-cough	11:8 47:0	9 83	8 33	1	=	=	-	1 1	2. Ischuria – – – – 3. Bright's Disease (Nephria) 4. Diabetes – – – –	8.7 2.1	1 8 3	1	-	2 2	4	1	-
Typhus Enteric or Typhoid Fever - Simple continued Fever -	43.2	6 9 7	3 3	2 1 2	3 2 2 1	8	-		5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	1.2 6.9	1 11	1 1 1	-	3	- 2	1 5	- 1
Erysipelas	5·1 2·7 ·6	8 2 2	3 -	-	1 1 1	3 1 -	1		ORDER 6. 1. Ovarian Dropsy 2. Uterus Discase, &c	1.3	- 3	-	-	- 1	- 2	-	Ē
Dysentery Diarrhea Simple Cholera	2·7 55°9 2°7	20 20 2	18 2	1111	2	-	2 -	11.1	ORDER 7.	·1 4·2	- 6	- 2	- 1		-	ī	-
Remittent Fever Rheumatism	1.3 8.3	7	H	2	=	- 3	- 2	-	2. Joint Disease, 4c ORDER 8.	2.2	1	1		_			
ORDER 2. Syphilis	7'3	7	7	- 1			-	-	1. Phlegmon 2. Ulcer 3. Skin Disease, &c.	1.0	I 1	-	-	=	-	1	-
Stricture of Urethra Hydrophobia Glanders	1.2	=		=		=	-	-	IV. DEVELOPMENTAL DISEASES.			I					
ORDER 8. Privation Want of Breast-milk -	°1 8°7	1 9 2	- 9			=	1	E	ORDER 1.  1. Premature Birth 2. Cyanosis	18.3	25 2	25 2	-	-			-
Purpura and Scurvy - Alco-(a Del. Tremens - holism b Intemperance -	2·6 2·2 1·8	1 2	Ğ	-	1 - 1	1	î	1 1 13	3. Spina Bifida 4. Other Malformations - 5. Teething	1.0 1.8 13.4	2 14	2 14	-	=		1-1-1	
ORDER 4. Thrush	2:7	1 1	1		- 1	-	-	-	ORDER 2. 1. Paramenia	*8	-	-	-	- 10	-	-	-
CONSTITUTIONAL DIS. ORDER 1;									Fever) {	5.7	10		-	10	-	-	
Gout Cancer	1.7 12.5 29.2	1 7 28	-	ī	- 4	3 15	1 2 9	ī	1. Old Age - 2 ORDER 4.	42.6	39		-	-	-	17	22
. Canerum Oris (Noma) - . Mortification	2.3	1 4	1	=	=	-	2	2	1. Atrophy and Debility - V. VIOLENT DEATHS, &c.	55.9	44	36	-	-	2	6	
ORDER 2. Scrofula Tabes Mesenterica Phthisis	8°3 20°4	6 17 131	8 15	2	1	40	- 6	-	ORDER 1. (ACCIDENT OF NEGLIGENCE.)	1							
Hydrocephalus	162·1 28·7	81	29 	15	67	-	-	E	1. Fractures and Contusions 2. Wounds 3. Burns and Scalds	12:3 *5 4:1	14 - 7	2 - 5	3	2	5	2	-
ORDER 1. Cephalitis	14.6	9	5	2	2		-	_	4. Poison	1.5 6.6 5.8	12 9	2 7	3 1	7	-	-	Ē
Apoplexy	29°4 24°5 2°1	30 23 -	3 -	1 -	3 -	13 2 -	12 16 -	2	7. Otherwise ORDER 3.	3.0	2		1	_	1	-	-
Chorea Epilepsy Convulsions	7 °8 40 °5	9 48 17	47	1.1.1	5	1	3 - 4	-	(HOMICIDE.)  1. Murder and Manslaughter	2.2	5	5		_	_		
Brain Disease, &c ORDER 2. Pericarditis	16.2	17	1	3	3	10	1		ORDER 4. (SUICIDE.)								T
. Aneurism . Heart Disease, &c	2°3 58°2	1 55	ī	3	12	17	21	ĩ	1. Wounds {Gunshot - Cut, Stab -	1.5 8	1			1 -	1	-	-
Laryngitis	4.6 70.8 3.2 50.4	12 82 3 48	9 23	2	3 1	16	33 2	6	3. Drowning	*8 *6 1·4 •7	3 3 -		1 -	1 -	1 -	1	-
Pleurisy	50°4 5°6 8°0	48 .5 11	29	2 -	1	6	6 3 2	1	_ Order 5. (Execution.)								
ORDER 4. Gastritis	1.9	2 2	-	1 (	î	2	ī	Ė	1. Hanging			-	-	-	-		-
Ascites Ulceration of Intestines -	6°1 4°9 1°7 2°7 2°9	2 8 2 4	3 1 1	1 1 1,	2	ī	1		Violent Deaths (not classed) Sudden Deaths (Cause un-	2.6	1 2	2	-	1	-	-	-
Hernia – – – – – – – Ileus – – – – Intussusception – –	3·2 9	4 2 5 8	1 2		3 1 2 -	1 1 1	1		ascertained) Causes not specified or ill-	11.2	1	-	-	-	1	-	-
												-			- 1		

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

TABLE OF TOTAL OF																	k end	
			during	during		11.		The 1	DEATE	is reg	istere	d in t	he We	ek in	elude			
REGISTRARS' . SUB-DISTRICTS.	-	POPU- LATION, 1861.	Total Births du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever,	Simple con-	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
LONDON -		2,803,989	1938	1296	282	226	232	27	24	3	33	6	9	7	20	58	97	312
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS		458,125 618,210 383,321 571,158 773,175	300 452 179 403 604	190 316 118 265 407	33 55 25 78 96	46 59 24 41 56	14 97 8 22 91	6 - 1 7 13	4 5 3 5 7	1 2	7 5 - 12 9	2 - 3 1	1 1 2 4	1 2 - 4	4 6 - 7 3	4 15 6 16 17	9 <sup>4</sup> 20 7 38 23	41 117 31 44 79
WEST DISTRICTS.  St. Mary Paddington H - St. John Paddington H - Kensington Town WL - Brompton H - St. Peter Hammersmith - St. Peter Hammersmith H Fulham WLLLL Chelsea South HH Chelsea North-west HWw - Chelsea North-east L - Hanover Square - May Fair W - St. John Westminster HHH St. Margaret Westminster WW St. James's Square Golden Square W Berwick-street	VHH -	39015 36769 51910 18198 5415 19104 15539 21654 19899 21886 19773 12885 55113 37483 80730 10753 13966 10607 17497	32 15 67 11 4 25 14 8 13 6 8 5 38 16 10 4 6 6 12	16 7 34 12 1 11 11 8 19 9 2 2 11 11 1 9 1 1 5	3-7-14-5-3214-32	7262-12182-433-4-1	1 5 - 42 1 1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	118111111111111111111111111111111111111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3233 - 11 13 - 1 - 516 - 3 - 1
St. Anne Soho HH - Cavendish Square - W - Rectory Marylebone HH - Christchurch Marylebone H - Christchurch Marylebone St. John Marylebone - Hampstead WHH - Regent's Park Paneras - Tottenham-court wH - Gray's Inn Lane H - Somers Town - Lamden Town W - Kentish Town W - Stoke Newington L - Stamford Hill - West Hackney W- Hallington East Www - Stoke Newington L - Stamford Hill - West Hackney W- Hallington East Www - Stoke Newington L - Stamford Hill - West Hackney W- Hallington East Www - Stoke Newington L - Stamford Hill - West Hackney W- South Ha		17426 29952 15090 26692 22493 34913 32540 19106 34927 29871 27808 39099 44817 75442 75499 6608 5483 24265 31481 15458	15 8 10 12 22 22 13 24 7 16 25 19 40 74 72 3 5 20 25 20 25 20 25 20 25 25 25 25 25 25 25 25 25 25 25 25 25	12 16 4 12 16 63 9 13 6 9 21 35 1 2 6 36 8	3 1 1 2 2 2 6 2 2 1 3 2 2 7 1 1 2 4 1	2291 -6 8 152115 58 - 161	52 - 1 3 8 1 8 3 - 24 -		3 - 11111111111111111111111111111111111	1	2 - 1 - 2 - 1 2 1 1 2 1 1 2 1 - 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1	111111111111111111111111111111111111111		1	1 - 1 - 2	1 2 - 1 5 1 1 1 1 1 1	1 1 3 - 1 6 8 1 1 1 - 1	51 77 11 6 4 77 26 -
Central Districts.  St. George Bloomsbury St. Giles South WH - St. Giles North - Long Are - Charing Cross WH - St. Mary-le-Strand St. Clement Danes H - St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell W - Annwell Clerkenwell W - Annwell Clerkenwell W - Cowell-street - City-road WHHL Whitecross street - Finsbury - St. Botolph East London HH Criplegate - Christchurch - Christchurch - Christchurch - Queenhithe - Allhallows Barking - Broad Street -		17892 19483 17201 11618 11071 10846 15207 19903 12947 12012 1202 17220 16250 16250 17762 19900 14778 12981 12981 1750 1850 1850 1850 1850 1850 1850 1850 18	8 4 8 7 5 8 4 7 7 10 4 3 12 20 6 8 9 6 8 4 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 11 6 3 1 1 8 9 10 4 9 6 5 3 1 4 12 5 7 7 4 8 2 2 2 2	1222 11133311 221111 11111	1 1 2 1 3 2 - 1 4 1 2 2 8 1	111111111111111111111111111111111111111		121 111 111 111 111 111 111 111 111 111				111111111111111111111111111111111111111				111111111111111111111111111111111111111	33 - 19 - 16 - 48 - 12 - 14 - 13 - 13 - 13 - 13 - 13 - 13 - 13

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H.—Hospital;

L.—Lunatic Asylum;

w—A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 213

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district aturday, 24th June 1871.

aturday, 24th June 1871.																	
		during	during				The D	EATH	s regis	tered	in the	e Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti- tutions.
East Districts.														-			
International Control	17313 19188 26516 25777 23260 17310	5 13 18 20 18 16	5 12 7 12 11	2 5 1 5 4	- 1 - 2 1	2 - 1	111111	2	11111	2 -	1	- - 1 -	11111	1	11111	1	- 1 5 -
Jackney-road Jreen, Bethnal Green WHL† - Lhurch, Bethnal Green - Jown, Bethnal Green - J	26298 31789 25528 21486	20 27 17 7	10 21 17 6	7 7 9 2	3 1 2	1 4 4 1	1 -	1111	1111	2 -			1 1 1 1	1 -	1 2 -	1 6	6 -
rtillery Whitechapel	6557 15700 15392 12122 8062 11166 9971	2 14 17 3 1 3 1	1 4 10 1 10 3 2	1 2 - 1	1 3 1 - 1 -	1	- 1	1111111	111111	111111	1	111111	111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 -	- 4 - 5 - 1	1 6 1 8 1 1
t. Mary St. George East t. Paul St. George East st. John St. George East W	18181 21015 9695	18 17 2	6 10 7	2 1 -	3 3	2 1	2 -	-	-	2 -	1 1 1		-	-		- 1	- 6
Shadwell $W$ - $U$	12537 16874 27161	7 7 20	11 5 8	2 1 -	3 - 2	-	Ξ,	ĩ		2 -		-		1	2 1 1	2 2 1	-
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St. Olave Southwark H	7663 11393 16696 16505 25154 24502	2 4 9 8 84 11	14 1 9 9 14 10	2 - 2 1 4 1	3 - 2 2 1 1	- 3 4 2 1	- 1 1	1	11111	111111	111111		111111	1	5 1	5 - - - 1	12 - 2 - 2
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	11 15 9 81 21 23 20 10	9 9 7 26 16 9 40 4	5 2 4 8 3 3 3 1	10 - 2 10 - 2 1	2 1 - 3 3 1 28	- - 2 1 1 2	2	11111111	1 1 1	11111111	1111111	1	1 - 1	1 1 1	2 2 2	10 - 25 -
Clapham HL Battersea W Wandsworth HL Streatham	20894 19600 13346 6481 10082	12 36 9 5	14 27 9 5	3 7 2 4 -	2 1 1 1 -	18 - - -	1	111111	1.8131	1 -	11111	11111	11711	11111	1	1 2 -	- 4 5 
Dulwich	1723 21297 28135 20333	2 23 32 21	1 13 19 10	2 8 1	1 3 2 1	- 1 3 1	2 -		11,71	1111				1111		- 2 1	- 5 -
St. Paul Deptford St. Nieholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	33 2 9 10	12 2 5 6	1 -	3 - 1 2	2 - 1		1 1 1 -		1111	1111	1 -	1111	1111	1111	1111	
Eltham	3009 11003 7372 10595	3 7 10 16	1 3 3 5	- - 1	1 1 1	1			-		1111			1111	1111	1111	1111
Charlton H	9276 22919 18776 11332 13170	4 5 9 16 14	4 4 5 5 2	1 1 2 2	- 1 1	1	11111	11111	FILLE	1 1	1.1.1.1		1	11111	11111	11111	2

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand - , , Tottenham-court sub-district.

London City - , , Islington East.

Do. do. - , , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.

London City " Mile End Old Town Eastern sub-dist. and
Stepney - " Bow sub-district.

Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL UBSERVATORY, GREENWICH, during the Week ending Saturday, 24th June, 1871. [Under the Superintendence of the Astronomer Royal.]

MOON   BARO-   RANGE   Constitute   Consti										Meteor	rologi	cal	Obs	eri	ations			11			
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				1871	MONTH AND		JUNE. SUNDAY MONDAY	TUESDAY	WEDNESDA	THURSDAY FRIDAY. SATURDAY	MEANS	No. of Colu	DATE.	JUNE.	SUNDAY .	MONDAY .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAY .	SATURDAY.

WEEKLY RETURN

# BIRTHS AND DEATHS IN LONDON AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, EX

No. 26. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JULY 1. [Price of d.

General Register Office, Somerset House, 3d July 1871

POPULATION AND DEATH-RATES.

The interval of the ten years between the successive enumerations is too long to justify us in expecting to be able to calculate the rates of mortality in the several towns of the Kingdom correctly during the whole term; but the error by any estimate is less than it would be were it assumed that the population remained stationary.

The course hitherto adopted has been to assume that the rate of increase in each of the sixteen large towns from 1861 to 1871 was maintained at the same rate as had prevailed in the ten years 1851–1861, and the numbers thus obtained were then submitted to the local authorities for revision. In six cases they suggested

alterations, which were accepted.

The last Census shows that the population of the sixteen great towns increased, like London, at a decreasing rate, and their population being consequently over-stated to a certain extent, their rates of mortality have been under-stated. Only in Bristol and Salford had the population increased at a faster than the calculated rate.

The difference between the annual rates of mortality in the week ending last Saturday calculated on the *estimated* and on the *corrected* population, may be thus stated, the latter of each two being the correct rate:—Portsmouth 12 and 13, Norwich 14 and 14, Bristol 22 and 21, Wolverhampton 15 and 17, Birmingham 18 and 20, Leicester 15 and 16, Nottingham 17 and 17, Liverpool 28 and 29, Manchester 25 and 27, Salford 24 and 24, Bradford 20 and 21, Leeds 19 and 19, Sheffield 23 and 24, Hull 19 and 21, Sunderland 48 and 50, and Newcastle-on-Tyne 27 and 28.

These are evidently the extreme errors, for in each of the intermediate years, as

we go back to 1861, the error diminishes.

In dealing with the population of the whole country or of London the fluctuations of trade produce less disturbance than is experienced in smaller towns

dependent upon manufactures and commerce.

The true interpretation of the diminished rate at which population has increased on the areas of towns within their ancient boundaries, is the abolition of cellar and other dwellings, the erection of warehouses, factories, and offices in the place of houses, the removal of families, and the increase of population taking place in the districts beyond the town limits.

The calculations during the remainder of the year will be made upon the recently enumerated figures, raised to represent the population living in the middle of the year 1871.

During the week ending Saturday the 1st July, 5264 births and 3195 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality in the week was at the rate of 23

deaths annually per 1000 persons living in these towns.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 21 per 1000; Portsmouth 13, Norwich 14, Bristol 21, Wolverhampton 17, Birmingham 20, Leicester 16, Nottingham 17, Liverpool 29, Manchester 27, Salford 24, Bradford 21, Leeds 19, Sheffield 24, Hull 21, Sunderland 50, and Newcastle-upon-Tyne 28. The fatal cases of small-pox in these seventeen towns, which in the three previous weeks had been 362, 358, and 347, were last week 370; of these 235 occurred in London, 26 in Liverpool, 54 in Sunderland, 25 in Newcastle-upon-Tyne, 23 in Manchester and Salford, 2 in Leeds, and one each in Portsmouth, Wolverhampton, Leicester, Sheffield, and Hull. The annual death rate in the week from small-pox was equal to 4 per 1000 persons living in London, 3 in Liverpool, 2 in Manchester and Salford, 10 in Newcastle, and was again so high as 29 per 1000 in Sunderland.

In Edinburgh the annual rate of mortality from all causes last week was 29 per

1000 persons living, and in Glasgow 33.

In Paris 892 deaths were returned in the week ending 30th ultimo. In Brussels 126 deaths occurred in the week ending 24th ultimo, and the annual death-rate

[26.]

was 29 per 1000. In Berlin during the week ending 29th ultimo 647 deaths we recorded, showing an annual rate of 47 per 1000; 155 were fatal cases of small-pox.

In the City of New York 469 deaths were registered in the week ending

10th ultimo, and the equivalent annual rate of mortality was 26 per 1000.

In Bombay the deaths registered during the week ending the 6th ultimo were 285, and the mortality was at the annual rate of 17 per 1000. In Madras 282 deaths were registered in the week ending 19th May, and the annual death-rate was equal to 34 per 1000 of the population; the 31 fatal cases of cholera showed a decline upon the previous week.

In London 2160 births and 1328 deaths were registered last week. After making due allowance for increase of population, the births were 53, and the deaths 61, below the average numbers in the corresponding week of the last ten years.

Zymotic diseases caused 409 deaths last week, including 235 from small-pox, 15 from measles, 16 from scarlet fever, 8 from diphtheria, 36 from whooping-cough, 22 from different forms of fever (of which 4 were certified as typhus, 11 as enteric or typhoid, and 7 as simple continued fever), and 46 from diarrhæa; thus to the seven principal diseases of this class 378 deaths were referred last week, against 362 and 361 in the two preceding weeks. The fatal cases of diarrhæa showed a marked increase upon recent weeks, although the mean temperature was con-

siderably below the average.

The fatal cases of small-pox in London, which in the three previous weeks had been 245, 240, and 232, were 235 last week. In six permanent and temporary hospitals for this disease 105 deaths were recorded last week, of which 37, 37, and 24 respectively occurred in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths, it appears that 23 belonged to the West group of Districts, 66 to the North, 11 to the Central, 60 to the East, and 75 to the South. The fatal cases showed a considerable increase in the East of London, while they had declined in all the other groups of Districts except the North. The fatality from small-pox was greatest last week in Bethnal Green, Southwark, and Battersea, although the numbers showed a decline in the latter sub-district.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29 80 in.; the highest reading was 30 10 in. on Monday at 9 A.M., and the lowest 29.51 in. on Wednesday at 9 A.M. The mean temperature of the air was 56° 6, or 4° 8 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was below the average on every day of the week. On Sunday, 25th ultimo, the mean was only 49°.9, and in defect by 11°.7, while on Saturday the mean had increased to 60°.1, and the deficiency was but 0°8. The highest day temperature in the shade was 72°·2 on Saturday; the lowest night temperature 40°·0 on Tuesday; the entire range of temperature in the week was, therefore, 32°·2. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 144°·9 on Saturday. The difference between the mean dew-point temperature and air temperature averaged 8°.6. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 60°.4 last week. mean degree of humidity of the air was 73, complete saturation being represented The general direction of the wind was N., W.S.W., and S.S.W., and the horizontal movement of the air in the week averaged 11 miles per hour. Rain fell on Wednesday and Friday to the amount of 0°05 in.

The mean temperature of the week in the other large English towns furnishing returns ranged from 53°·3 in Hull, to 56°·7 in Manchester; the lowest recorded night temperature was 34°·0 in Hull; and the highest day temperature in the shade 74°·2 in Leicester. Rain was measured last week in each of these towns; the amount varied from '02 of an inch in Portsmouth to '48 of an inch in Hull,

and '56 in Salford.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 13°·66; the highest day temperature in the shade was 22°·33, the lowest night temperature 4°·44, the highest temperature in the sun was 44°·95. The mean temperature of the corresponding week in 50 years averaged 16°·33, or 2°·67 above the temperature of last week. The wind blew at the rate of 13 kilometres an hour; and the rain-fall measured ·13 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 215,386 cubic metres, and at Barking 234,712 cubic metres, equiva-

lent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the TWENTY-SIXTH Week of Ten previous Years.

TOTAL Births  Males  Females .	1861 1904 963 941	1862 1807 897 910	1959 1959 1025 934	1864 1999 1051 948	1969 1004 965	1866 1919 982 937	1867 2160 1084 1076	1868 2169 1122 1047	2019 1046 973	2213 1129 1084	Average of 10 Weeks.  2011 · 8 1030 · 3 981 · 5	2160 1099 1061
Total Deaths Males Females .	1092	1066	1158	1297	1455	1400	1118	1454	1231	1359	1263·0	1328
	594	540:	619	663	747	694	603	767	654	693	657·4	678
	498	526	539	634	708	706	515	687	577	666	605·6	650

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

Deaths under 5 years of age - 1573 670 583 581 568 519 594 485 513 548 477 495 541 185 185 200 157 174 167 159 183 142 152 153 137 150 135 131 135 135 135 136 200 40 262 291 277 248 276 232 260 270 242 271 257 248 238 Deaths 40—60 287 262 244 226 253 189 214 227 236 218 229 196 215 Deaths 60—80 197 249 258 212 193 213 207 217 223 219 204 189 165 Deaths at 80 years & upwards 67 76 49 41 49 46 45 49 42 31 47 37 34    Deaths from Smallpox - 214 265 276 261 288 232 267 257 229 245 240 232 235 189 189 189 189 189 189 189 189 189 189														
MISSIS														
Total Deaths	1493	1722	1578	1469	1522	1341	1486	1401	1393	1437	1349	1296	1328	
Deaths under 5 years of age - Deaths 5-20														
Deaths 20—40 Deaths 40—60	237	262	244	226	253	189	214	227	236	218	229	196	215	
Deaths at 80 years & upwards														
,, Measles + +	15	6	13	12	17	16	11	23	16	23	21	27	15	
Diphtheria - Whooping-cough	6 53	66	4 44	7 45	36	2 25	8 43	2 48	10 28	6 32	9 29	3 33	8 36	
, Enteric (or Ty-) phoid) fever -	11	14	15	13	14	9	18	8	20	12	13	9	11	
" Diarrhœa Simple Chelere -	7	6	15	14	13	13	22	12	20	23	24	20	46	
" " Bronchitis	149	189	145	133	123	108	100	95	81	. 93	90	82	82	
Wasst Discours	81	66		64	66	71	53	57	64	68				
Mean Temperature of the Air			50.0	50.7	49.7	47.6		56.7			59.5	56:2	56.6	
Mean Temperature of the Water of the Thames -	45.7	47.0	50.8	51.9	52.7	53.2	52-4	55.6	59.1	56.3	57-2	56.1	60.4	
Humidity of the Air	76	81	89	85	74	76	73	72	77.	76	85	84	73	
Rain-fall in inches	0.01	0.36	1.75	0.80	0.50	0.15	0.19	0.22	0.10	0.31	1.05	1.50	0.02	

Note.—The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Becles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered and METEOROLOGY during the Week ending Saturday, the 1st day of July 1871, in the following large Towns.

CITIES  Area POPULATION estimated to the middle of the Year 1871.*  BOROUGHS.  Acres.	CEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FAL
BOROUGHS.  Acres.  to the to an during the during the middle of the Year 1871.*  (1871.)  to the week ending Week ending the during the Mean I st July lat July the during the Lowest during the Lowest the Daily the Lowest the Lowest during the Mean I st July the Lowest the Daily the Lowest the Lowest during the Mean I st July the Lowest the Lowest during the Mean I st July the Lowest the Lowest during the Mean I st July the Mean I st July the Lowest during the Mean I st July the Lowest during the Mean I st July	Weekly		
BOROUGHS. Acres. middle of the Year 1871.* (1871.) 1st July 1st July during during of the Daily it	Weekly		
1871.* (1871.) 1st July 1st July the the Daily th		In	
	Mean of the Daily	Inches.	Ce
	Mean Values.		1146
Total of 20 Towns)			
in the UNITED 213,281 7,215,757 33.8 5264 3195 74.2 34.0 55.3	12.94	0.31	0
LONDON 77.997 3,263,872 41.8 2160 1328 72.2 40.0 56.6	13.66	0.02	ó
PORTSMOUTH 9,513 113,450 11'9 75 28 71'2 41'2 56'5	13.61	0.03	0
NORWICH 7,472 80,533 10.8 61 22 72.5 38.8 54.6	12.55	0.37	0
Bristol 4,688 183,298 39°1 109 72		-	. ,
WOLVERHAMPTON - 3,387 69,476 20.2 62 22 70.0 39.4 54.9	12.72	0.53	0
BIRMINGHAM 7,831 344,980 44.1 248 133 68.6 40.8 54.3	12.39	0.06	0
LEICESTER 3,200   95,882   30.0   97   29   74.2   37.7   55.8	13.22	0°14	0
NOTTINGHAM 1,996   86,929   43.6   63   29   71.6   36.8   55.2	12.89	0.16	0
LIVERPOOL 5,108   494,649   96.8   412   278   69.3   45.2   56.6	13.66	0.24	0
MANCHESTER 4,486 356,099 79.4 300 183 73.2 42.0 56.7	13.72	0.39	0
SALFORD - \- 5,172   125,422   34.3   100   57   71.0   40.8   55.1	12.83	0.26	1
Bradford 6.590   146.987   22.3   122   58   69.0   43.5   55.3	12.94	0.43	1
LEEDS 21,572 260,657 12.1 249 95 69.0 42.0 53.7	12.06	0.37	0
SHEFFIELD 22,880, 241,507 10.6 221 112 71.8 38.0 54.7	12.61	0.19	0
HULL 3,562 122,266 34.3 92 49 73.0 34.0 53.3	11.84	0°48	1
SUNDERLAND 8,306 98,797 29.9 100 95		<b>Server</b> .	-
NEWCASTLE-ON-TYNE 5,336 128,677 24·1 91 70	5-m	-	
EDINBURGH - • 4,427 201,728 45.6 141 112 65.7 39.0 54.6	12.55	0.40	1
GLASGOW 5,063 479,227 94.7 390 302 65.8 43.6 56.0	13.33	0.93	2
DUBLIN 9,745   322,321   33.1   47/†   42/†   68.9   38.2   56.7	13.72	0.13	0

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by add 1-40th of the rate of increase which prevailed between 1861 and 1871; the numbers for Edinburgh and Glasgow have I furnished by the Registrar General of Scotland, while those for Dublin are still the estimated numbers recently used.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Wending Saturday the 1st day of July 1871.

	ANNUAL RATE				Th	e DEAT	Hs reg	istered	in the 1	Week in	elude		
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhœa.	Violençe.	Inquest Савен.
Total of 17 Towns -	22	2660	682	418	370	64	45	10	66	59	82	93	147
LONDON	21	1328	325	199	235	15	16	8	36	22	46	46	81
PORTSMOUTH	13	28	5	8	1	1		_	4	2	-	1	-
NORWICH	14	22	5	6	-		-		-		-	1	2
BRISTOL	21	72	15	18	-	~	3	-	2	1	1	4	4
WOLVERHAMPTON -	17	22	7	4	ì	-	1	-	_	1	-	1	1
BIRMINGHAM	20	133	38	15		13		1	4	1	5	9	12
LEICESTER	16	29	13	5	1		1	-	-		1	-	
NOTTINGHAM	17	29	7.	9	-		1	-	~	-	-	-	2
LIVERPOOL	29	278	77	49	26	10	8	1	6	18	8	12	13
MANCHESTER	27	183	38	22	14	5 (	6		3	7	11	5	11
SALFORD	24	57	9	7	9	10		-	-	-	3	-	2
Bradford	21	58	19	12	-	-	1	-	2	- 2	.1	4	4
LEEDS	19	95	31.	19	2	1	1	-	2 .	3	4	5	6
SHEFFIELD	24	112	29	16	1	7	5	-	2	1	1	3	6
HULL	21 -	49	12	12	1	1	-		1	. 1	1	-	-
SUNDERLAND	50	95	27	8	54	-	2	~	- min	1	80	1	2
NEWCASTLE-ON-TYNE -	28	70	25	9	25	. 1	-	-	4	T years	- 1	1	1
Dublint	-	-	100		- No.	-	ods.	atio	-	-	-	-	c 1

<sup>†</sup> No return has been received from Dublin this week; an average of the numbers in the three previous weeks have be inserted in Table 3, to make up a total for the 20 Towns of the United Kingdom,

TABLE 5.—DEATHS in LONDON Registered in the TWENTY-SIXTH Week of the Year 1871

TABLE 5.—D	EATHS	in L	ONI	OON	Reg	gist	erec	l in	the TWENTY-SIXTH We	ek of	the X	ear	18	71.			
	eek 1-70.	S	In thature	ne W	eek e	ndir 1, 18	ng 71.			eek 1-70.	8	In thatur	he W	eek July	endi	ng 371.	
	Averages of the Twenty-sixth Week the 10 years 1861-70			hs of		ons				Averages of the Twenty-sixth Week in the 10 years 1861-70	-	_	hs of		sons		
CAUSES OF DEATH.	rages y-six year	ALL	Un	1	<b>6</b>	60.	80.		CAUSES OF DEATH.	rages y-six year	ALL	Un	1	. 1	. ng	80.	-
	Ave went	AGES.	2		under 4	under 6	See	s and	The second second	Ave went	AGES.	2		under 40	under 6	20	and ls.
	T ui	Mean Tem.		20.	and ur	and ur	ın pu	o Years a		In	Mean Tem.	5°	.0.	ng nı	nd ur	nd nr	Tears and upwards.
Mean Temperature -	59.8	56.6	0-0	6-2	20 a	40 a	60 and	08 n	Mean Temperature -	59.8	56.6	0-0	5-20	20 and	40 and	60 and	80 u
ALL CAUSES	1262.0	1328†	541	135	238	215	165	34	9. Stricture of Intestines - 10. Fistula	7	-	Ē	-	-	-	3	I
SPECIFIED CAUSES	1248.6	1284	525	133	233	204	158	31	11. Stomach Disease, &c 12. Pancreas Disease, &c 13. Hepatitis -	5.6	-2	1	-	- 2	-	1	-
I. ZYMOTIC DISEASES. ORDER 1.									13. Hepatitis	3.6 3.8 14.7	1 13		-	1	8	1 1 4	1
1. Small-pox	15.0 40.2	235 15 16	86 15	54	78	16	1	-	16. Spleen Disease, &c ORDER 5.	.6							
4. Diphtheria	51.2 9.3 1.0	8 -	7 4	3	4	1	-	E	1. Nephritis	7	2 -	1	-	1	-	-	-
6. Croup	11.3 48.0	36 4	4 32	3	- - 1	1 2	-		3. Bright's Disease (Nephria) 4. Diabetes	9.3	6 - 1	1 -	-	2	2 - 1	1 -	
- Entericor Typhoid Fever - Simple continued Fever -	42.7	11 7	3 3	6	- 2	3 3	1 - 3	-	6. Cystitis 7. Kidney Disease, &c	1.1	2			-	ī	- 1	-
9. Erysipelas 10. Puerperal Fever (Metria) 11. Carbuncle	4.5 2.7 .4	12 3	3 -	1	3	-		=	ORDER 6. 1. Ovarian Dropsy	.9	_		-	-	_	_	_
12. Influenza	2.4	2		-	ī	1 2	- 2	-	2. Uterus Disease, &c ORDER 7.	3.0	3			1	1	ī	
14. Diarrhea 15. Simple Cholera 16. Ague	84.0 6.2 *3	46 2 1	42 2 -	=	-	1	_		1. Synovitis (Arthritis) - 2. Joint Disease, &c	4.4	10	1	- 3	2	3	- 1	-
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	1·2 6·1 ·3	6	=	3	1	2		E	ORDER 8.	-8	1	1		_			_
ORDER 2.	6.4	3	3		_		_		2. Ulcer	1.1	1 3 3	1 3	-	-	1 -	1 -	-
2. Stricture of Urethra - 3. Hydrophobia	6	1 -	-	-	-	1 -	-	-	IV. DEVELOPMENTAL DISEASES.								
4. Glanders ORDER 3.	-4		-	-					ORDER 1. 1. Premature Birth	22.5	23	23					
1. Privation	10.3	3 4	3.1	-	1	2	=	-	2. Cyanosis	1.0	1 2	1 2 3	-	Ξ	=	=	-
3. Purpura and Scurvy 4. Alco- \( a \) Del. Tremens - holism \( b \) Intemperance -	2.1 1.8 .7	3	: -	C	ī	1	ī	-	5. Teething	15.7	3 17	17 17	-	-	-	-	-
ORDER 4.  1. Thrush  2. Worms, &c	2.6	4	4	-	-	-	-	-	ORDER 2.	•1	-	-	-	-	-	-	-
II. CONSTITUTIONAL DIS			-						2. Childbirth (see Puer-) peral Fever)	4.3	3	-	-	3	_	_	-
ORDER 1. 1. Gout	1.9	6	- 2	-	Ŀ	ī	- 2	-	ORDER 3. 1. Old Age	40.3	29	-	-	-	-	15	14
3. Cancer	30.7	30	=	-	4	14	10	2 - 1	ORDER 4.  1. Atrophy and Debility -	60.3	62	.55	1	-	1	5	-
5. Mortification ORDER 2.	8.8	6	5	1			1	1	V. VIOLENT DEATHS, &c.								
1. Scrofula	10°3 21°1 163°6	21 147	19	17	81	36	4	-	ORDER 1. (Accident of Negligence.)		00						_
4. Hydrocephalus III, LOCAL DISEASES.	29.2	30	26	4			-		1. Fractures and Contusions 2. Wounds 3. Burns and Scalds	3.5	20 2 5	4 - 2	4	1 2	1 1	4	2 -
ORDER 1.  1. Cephalitis	13°5	18	10	5	1	1	1	-	4. Poison	1.0 8.4 6.9	1 4 4	- 3	1	ī	1 2	-	- 1
2. Apoplexy	34·1 23·7	37 22 2	4 -	2 -	3	14 6 1	12	2	6. Suffocation 7. Otherwise	2.7	-	-	=	_	=	=	-
4. Insanity	2 · 9 · 2 · 5 · 6	1 7	-	1 3	-	2	ī	- 1	ORDER 3. (Homicide.)								
7. Convulsions 8. Brain Disease, &c	42°6 18°5	54 14	54	1	3	4	5	-	1. Murder and Manslaughter	3.0	3	3	-		-	-	-
ORDER 2. 1. Pericarditis	2'6	2	1	-	- 1	-	1	-	ORDER 4. (SUICIDE.)	.,							
8. Heart Dis ase, &c ORDER 3.	2°1 53°8	52	-	3	12	21	16	-	1. Wounds {Gunshot Cut, Stab 2. Poison -	1.7	1 1 1	-	=	1	=	-	-
1. Laryngitis	4.2 64.4	82 4	2 25	1 2	1 3 1 3	18	31	4	8 Drowning	1 · 2 2 · 4 7	1 -	-	1	-	-	-	111
4. Pneumonia 5. Asthma	2°5 51°7 8°8 9°9	38	19	2	- 1	11 2	1 2 4	1	ORDER 5.			1					
6. Lung Disease, &c ORDER 4.	-	10	7	-	1	1	1		(EXECUTION) 1. Hanging	-	-	-	-	-	-	-	~
1. Gastritis	1°8 6°0 8 6	5 3	3 1	1	1 -	1 - 2	1		Violent Deaths (not classed)	*6	1	-	-	-	_	1	-
4. Ascites	2'4	1 4	1 -	-	3	1 -	ī	-	Sudden Deaths (Cause un-)	3.5	-	-	-	-	-	-	-
6. Hernia	3 2 3 5 8	3 1	1 -	-	-	1 -	1 1	1 -	Causes not specified or ill- defined	9.9	44†	16	2	5	11	7	. 3
		1	od."	the c	oron	OTE	١	gom	e other cases, do not always succ	eed in dis	coverin	g wh	ether	r the	Casi	ig 1	

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a nurder, or an accident. All such cases are classed under "accident or negligence."

† The return for Islington East was received after the completion of these Tables; of the 47 deaths in that return, 9 deaths from zymotic diseases have been added to the Table in their respective places, but the remaining 35 have, of necessity, been placed to "Causes not specified," distributed at the correct ages.

Pable 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											au	ring	the	vv ee	k en	aing
. 4	during	during				The	DEAT	ns re	gistere	d in	the W	eek i	nelud	•		
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861. [PION CHAP	DEATHS Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	2,803,989 216	1328	325	199	235	15	16	8	36	4	11	7	46	46	81	323
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS SOUTH DISTRICTS	458,125 32 618,210 47 383,321 20 571,158 47 773,175 68	0 840 0 155 7 258	51 67 41 78 93	26 52 24 38 59	12 111 6 81 75	2 4 2 - 7	3 5 2 6	1 1 5	9 7 5 11 4	- 2 1 1	1 6 - 2 2 2	1 - 3 3	10 10 4 12 10	3 15 4 13 11	7 26 11 22 15	41 117 41 45 79
WEST DISTRICTS.  St. Mary Paddington WH	\$9015	10 10 17 - 11 11 12 7 7 13 19 19 17 17 3 18 19 17 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	3182 54232 1-445 1114	3212 + 12 41 - 12 32 22 1	1131 21 21 1 121 1 111	1	1		4 - 87 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -		1		121 11 - 1 - 2	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1348 1 1 21 1 75 19 11 1
NORTH DISTRICTS.  All Souls Marylebone HH	29952 14 15090 2 1 26692 1 22493 3 34 34913 27 35540 12 19106 19 34927 1 0 27808 2 29371 0 27808 2 22926 10 44317 74 75442 74 75442 74 75443 2 5433 2	6 16 14 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	2 1 3 3 3 9 7 1 1 3 4 8 14 	533121 1 325 - 35 29 -1141	1 - 1 2 - 38 2 2 1 2 1 4 9 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11122		1 - 1 - 21 - 11 - 21 - 11 - 11 - 11 - 1	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11113123	118 3 1 - 114 16 - 28 1	6 5 30 5 3 6 1 7 6
CENTRAL DISTRICTS.  St. Gleorge Bloomsbury - St. Giles South WH - St. Giles North - St. Giles North - St. Giles North - St. Giles North - St. Mary-le-Strand - St. Glement Danes H - St. Glement Danes H - St. Glement Danes H - St. Andrew East Holborn W - Saffron Hill - St. James Clerkenwell W - Amwell Clerkenwell W - Amwell Clerkenwell W - Amwell Clerkenwell W - Cluty-road WHHL - Clyty-road WHHL - Clyty-road WHHL - St. Sepulchre H - St. Sepul	17382 10 19483 14 17201 12 11618 11071 8 11074 8 116207 8 119903 11 12947 7 12012 7 12012 7 12012 9 16200 11 17860 17 14778 12981 4 17762 9 16395 7 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1762 9 16395 1 1644 8	23 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 5 2 1 1 8 4 4 1 - 2 2 2 5 3 - 2 1 2 2 1 1	77 21	1	11 (1111) (1111)								1	1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1	15 5 5 2

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

deaths is likely to occur, namely,

### W-Workhouse;

H-Hospital;

L-Lunatic Asylum;

10-A Workhouse not belonging to the district in which it is situated.

The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

† Officials of Pub † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 1st July 1871.

Saturday, 1st July 1871.						_											
		during	during				The 1	DEATH	is reg	istere	d in	the W	eek in	aclude			
REGISTRARS' SUB-DISTRICTS.	POPU- LATION, 1861.	Total Births du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch — — — — — — — — — — — — — — — — — — —	17313 19188 26516 25777 23260 17310	10 15 18 18 18 10	7 10 15 12 12 12 6	4 2 3 2 1 3	2414	1 2 -		111111	11111	- 1	111111	1	111111	3 - 1	3 5	7 3 5 -	1 00 04 1 10 11
Hackney-road Green, Bethnal Green WHL† - Church, Bethnal Green Town, Bethnal Green	26298 31789 25528 21486	16 26 18 12	8 11 9 9	3 2 2 3	1111	1 3 5 8	4 1 4 4			1 - 1		1111	1111	1	1111	1	1
Artillery Whitechapel Spitalifields	6557 15700 15392 12122 8062 11166 9971	4 11 17 12 8 8 5	9 9 8 18 17	- 3 3 3 3 1 2	2 2 1 1 - 1	1 1 1 1 1 1		1111111	1411111	2 1 -	1111111	1	111111	1 1 1	1 4	14-	13
St. Mary St. George East St. Paul St. George East St. John St. George East W	18181 21015 9695	17 19 4	8 7 5	3 2 1	2	-	-		-	2 -		1 1 1	1 -	1 -	1 1 1	111	- 14
Shadwell W	12537 16874 27161	7 8 28	2 4 6	2	1 - 2	ī	-	-		-	-	1.11			1 1 1	-	1
Mile End Old Town West Mile End Old Town East WwH	83747 39317	23 46	13 21	5 6	2 5	2 4	=	-	-	1 2	-	-	-	2	-	-	3
Bow WwHL†	85667 43529	66 38	25 16	8 5	3	3 2	-	2	ī	-	1 -	-	1	ī		1	4
SOUTH DISTRICTS.  Christchurch Southwark W St. Saviour Southwark H Kent-road  Borough-road WH	17069 19101 19652 16668 19190 22675 44463 15082	10 10 14 7 17 18 51	10 7 13 8 5 7 22 9	2 5 4 3 2 3 3 2	4 1 2 3 2 1 5	1 3 - 1 3 5	1 1 1 - 1	11111111	111111111	1	1	111111111	1	111	1 1 2	1 1 - 2	4 - 8 - 1 8 5
St. Olave Southwark H	7663 11393 16696 16505 25154 24502	13 15 9 43 10	12 3 8 7 15 8	1 1 2 6 3	1 2 2 2	1 2 1 1	111111		111111	111111				 - - - - -	2	1 -	9 1 1 -
Waterloo-road 1st H Waterloo-road 2nd H	15269 18640 19839 29542 30785 20440 20067 7462	14 19 12 87 19 29 23 15	8 13 13 14 7 8 37 2	3 5 6 1 2 1 2	1 - 5 4 2 2 -	2 1 2 - 23 1	2		2	1111111	1111111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2	1 2	1 2	7 - 24 -
Clapham HL	20894 19600 13346 6481 10082	19 32 12 6 9	7 26 12 2 4	8 2 -	4 2 -	4 9 - 1	- 1 -	1 - 1	11111	1	11111		11111	- 1 -	1111	1 1	2 -
Dulwich	1723 21297 28135 20333	2 19 22 18	1 13 8 10	1 2 1	- 4 1 1	- 2 - 4	1111	ī		1111		1111	- 1 -	1111	- ī	ī	6 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	37834 8139 21696 18306	38 1 12 6	12 4 3 12	3 2 3 1	2 - 2	2 - 1			- 2	1111			1111	ī -	1111	1111	- - 7
Eltham	3009 11003 7372 10595	4 8 14 15	1 2 3 3	2 -	1		ī	-	1111	1111	1111	1111	1311	1111		1111	1410
Charlton H -	9276 22919 18776 11332 13170	13 16 5 14	1 6 8 6 5	2 2 3 3	1 1 -	11111	11111	-	11111	1 -	11111	- 1 -	-	- 1		11111	2 -

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh is in Chelsea North-west sub-district.

The Strand - - " Tottenham-court sub-district.
London City - " Islington East.

Do. do. - " Hackney sub-district.

Stepney - " Bow sub-district.

Stepney - " Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 1st July, 1871. [Under the Superintendence of the Astronomer Royal.]

1		_	-								1	Lo		C 012	<b>.</b>	<b>.</b>	0=1	0 1 12		\$0.12.0	. 0=1=
		rg .			euozo		:		:	·		92		the mean rith those taken at	e dry mean i five	daily 7 and sults	e the well	erage erva er 31.	od as	ering about aper-	ek to eased d was
	RAIN.	Collected		receiving	65	Inches	0.00	888	0.05	00.00	Sum 0.05	35		ove the re take	eter, the	the dry	, includ P.M., as termine	The average ical observa-December 31.	ndersto	If-regist epth of a	of Lieut the we th; incr une; an
			Robinson's.	Amount of	Movement of Air each day.	Miles.	193	224 415 249	250	256	Sum 1914	24		to be 159 feet above the mean dered to be coincident with those The observations are taken at	he barom convert sher. F.R.	1848. The values of edition.	column 7 ; and 9h ers, as de	to each. rmometr ing 1863,	e to be u	use of se at the de ered und	aission c nning of n the 28 n 30th Ju
ı	Charles .	eters.		refoot	Mean of 24 Obs.	lbs.	0.1	0.0	1.0	0.5	:	23		be 159 to be obser	es, are	art 1, daily urth	ed in on P.M.	pplied the the	ons ar	oy the Ship, regist	p pern b begin A.M. oi A.M. o
	-	nemon		on squa	Least.	lbs.	0.0	0.0	0.0	0.0	:	252		ed to	eading se tim	ans., p mean es, Fo	xhibite on; 31 therr	from t	servați	ined k Police ts are	at the sy sh.
ı	WIND.	from A	· g	Pressure on square foot	Great-	lbs.	1.6	30.0	1.4	67	:	21		considered to be r are considered to rometer. The ok	at ther	hil. Tr those al Tabl	bers e M.; no nimum	aisher n the	cal obs	scerta pion" rumen	the sk n Polic 1.98 in. 51 in. k
		As deduced from Anemometers	Osler's.		P, M.	Z	N.&NNE.	wsw.&ssw. W.	S. by E. WSW. &	SSW.	, & SSW	20	NOTES.	barometer is co the barometer a standard baron	The means of the readings of the barometer, the dry si, observed at these times, are converted into mean entions deduced by James Glaisher, F.E.S., from five	r 31.—See Feduced from Tygrometric	or the num ead at 9h. A um and mi	oper corrected by Mr. Grienwich, i	meteorologi ht to midni	Thames is of the "Score these inst	on board Metropolita used from 23 ased to 29 reased to 29
		-		General Direction,	А. М.	Z	z	S. & WSW.	S. by E.	& SSW.	N, WSW	19		of the bar ngs of the t glass sta	9h. A.M.; noon; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry dremnometer, and the wet thermometer, observed at these times are converted into mean daily values by the amplication of corrections deduced by James Glaisher. F.R.S. from five	years' observations ending 1845, December St.—See Phist. Trans., part 1, 1848. The mean daily years down down your and degree of hundliny are educated from those mean daily values of the dry and dew point and degree of hundliny are educated from those mean daily values of the dry and wet builb thermometers by Galasher's Hygrometrical Tables, Fourth edition. The results	for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M., as well as the results deduced from the maximum and minimum thermometers, as determined by	the self-expision in the monotonic in the proper corrections being applied to each. This average temperature of the air is that deformined by Mr. Glasher from the thermometrical observation taken at the koyal Observation by Mr. Glasher from the thermometrical observation taken at the koyal Observation by Greenwich in the Soyal observation of the self-expision of t	The results of all the meteorological observations are to be understood il day, or from midnight to midnight.	The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of about 2 feet below the surface. The peadings of these instruments are pearstered under the super-	intendence of the resident inspector on board the ship, by permission of LieutCo., Heuderson, R.E., C.B., COB., Commissioner of Metropolitan Politica. the beginning of the week to The reading of the barometer increased from 29'88 in, at the beginning of the week to 80'10 in. by 90. A.M. on the 26th; decreased to 29'51 in. by 90. A.M. on the 28th; increased to 29'51 in. by 90. A.M. on the 28th; increased to 29'59 in. by 90. A.M. on the 28th; increased to 29'77 in. at the end of the week.
	Degree	midity,	Satura-	being renre-		69	74	72 79 07	92	- 22	73	18		the cistern The readi	.M.; an	iding 18 of hur ters by	erature dry ther ed from	hermom bir is the coyal Ok	he resulday, or 1	of the winded from	S. Comparts. Comparts on the M. on the ft the Weither Weither for the Weither
Frankou toutous room out		Between	perature of	the day and mean tem-	the same day on an average of 50 years.*	10-1	6.6	1 2.5	1.8	8.0 -	4.8	17		ht of the e sea. The	ioon; 3h. Feer, and the	rvations er and degree thermomet	daily temp is of the ults deduc	ristering the street the street the E	verage. To the civil	perature ( bers, suspe w the surf	intendence of the residence of the residence of The reading of the base of the
Campain	DIFFERENCE	Point		ure	Least.	o <u>:</u>		1.7	4.4	0.0	1.6	16		The height of vel of the sea.	momet value	s' obse point bulb	rvation	self-res peratu s take	the a	ne tem mome	ndence dersor ne res 0 in. b 9.70 in
1000	DIF	Between Dew Point	and	Air Femperature	Great-	10.41	18.7	19.6	18.5	19.4	17.8	15		leve of t	9h. J	year dew wet	for obse	the tem	thar	ther 2 fee	
		Betwe	5114	AIR	daily value,		000	0.0	7.5	1.6	9.8	14				f cloud		Generally		about ine.	ly very
Oliner the Super memorine of			the Thames at	Greenwich, by self-registering Therminaters	Lowest	0,70	29.0	58.3	59.2	59.5	58.8	13			A fine cloudless night.	amount of cloud	h. P.M.			nd heavily	Generally very
andre		T. Ab. T			Highest.	4.69	9.19	61.4	62.1	62.6	6.19	12	HERE		e cloudle	0	Cloudless after 9h. P.M.	early morning.		rning, at	night.
inner ann	rers.	Lowest on the	0.	a self- register-	ing Minimum Thermo- meter.	0.4.1	33.2	33.8 43.6 43.6	43.0	39.3	38.7	=	ATMOSPHERE		1y. A fl	mornin udless at		the	of cloud	early mo	alent till
10	THERMOMETERS.	Highest in	shown by	Thermo meter with	blackened bulb in vacuo, placed on the Grass.	-		129.5 126.1 137.1		144.9	133.1	10	AND		Generally cloudy during the day.	A very fine day. Dew in the morning. Th was variable during the day; cloudless at night.	A fine day.	fell during Brisk wind.	day. Variable amounts of cloud	occasionally in the early morning, and heavily about Variable till night; then generally cloudless. Fine.	amounts of cloud prevalent till night.
I	SADINGS OF	Dew	Point.	Mean	daily value.	40.3		46·1 52·5 50·6	51.8	50.4	48.0	6	RKY		loudy d	daring	night.	ers of rain	Varia	ccasions ariable	o stund
	READIN			Mean	daily value,	0 49.0		55·1 59·0 60·4	59.3	60.1	9.99	00			erally o	ery fine ariab.e	Cloudy till night.	vers o			
ı			lury.	Range	day.	0.80		29·1 19·9 19·3		24.2	22.3	-			Ger	A Was v	Cio	Showe cloudy t	A fine	Rain f	Large fine.
			-		est.	014	42.1	49.9	20.0	48.0	46.3	9				~		ion in			
ı				4		909	65.4	69.8		72.5	9.89	uo l	HTX.			поми.	oon.	ak tens	sitive.	ů	ght.
	BARO-	Mean	reading (eot-	rected and re-	Tuced to 32 degr. Fahren- heit).	in.	30.081	29.869 29.572 29.674	29.630	29.768	29.799	4	ELECTRICITY		1	ity was a	ative at n	with we	weak po	ity show	tive at ni
	MOON.		Phases	Jo	Moon.		In	:::	:		:	00	ELI			No electricity was shown.	Weak negative at noon.	Positive, with weak tension in the afternoon.	Occasional weak positive.	No electricity shown	Weak positive at night.
				700		90	98	288	8	-		mis	-		255	88	27	28 the	20 C	8	
			1871.	Mount two flar	HILL HILL	JUNE.	MONDAY.	TUESDAY. WEDNESDAY.	FRIDAY	JULY. SATURDAY.	MEANS .	No. of Columns	DATE.	JUNE.	SUNDAY . 2	Mondar . 2	TUESDAY . 2	Wednesday 2	THURSDAY. 2	FRIDAY . 3	JULY. SATURDAY.
1	_		7	_		10			14	02		1			S	A	H	=	H	H	60

### WEEKLY RETURN

OF

# AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 27. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JULY 8. [Price 1d.

General Register Office, Somerset House, 10th July 1871.

DURING the week ending Saturday the 8th instant, 4355 births and 2967 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week was at the rate of 21

deaths annually in every 1000 persons living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 19 per 1000; Portsmouth 16, Norwich 12, Bristol 17, Wolverhampton 13, Birmingham 19, Leicester 19, Nottingham 16, Liverpool 26, Manchester 26, Salford 25, Bradford 24, Leeds 19, Sheffield 19, Hull 15, Sunderland 43, and Newcastle-upon-Tyne 30. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had been 347 and 371, declined last week to 269; of these 164 occurred in London, 27 in Liverpool, 45 in Sunderland, 15 in Newcastle-upon-Tyne, 15 in Manchester and Salford, 2 in Birmingham, and one in Portsmouth. The annual death-rate in the week from small-pox was equal to 3 per 1000 persons living in London and Liverpool, 6 in Newcastle, and was again so high as 24 per 1000 in Sunderland; the rate showed a decline upon the previous week in each of these towns except Liverpool, where there was a slight increase.

Small-pox continues fatally prevalent in Southampton, Weymouth, and Grimsby; in the two weeks ending last Saturday the annual death rate from this disease was equal to 14, 21, and 24 per 1000 respectively in these three registration sub-districts.

In Edinburgh the annual rate of mortality from all causes last week was 21 per

1000 persons living, in Glasgow 34 per 1000, and in Dublin 20.

In Paris 803 deaths were returned in the week ending 7th instant; its sanitary condition continues satisfactory; the annual death-rate per 1000 of the population enumerated in 1866 (which Dr. Worms considers to be nearer the actual number than any more recent estimate) has averaged 27 in the three weeks ending last Friday, against 33 in the three corresponding weeks of 1870, when small-pox was severely epidemic. In Brussels 111 deaths occurred in the week ending 1st instant, and the annual death-rate was equal to 29 per 1000. In Berlin during the week ending 6th instant 676 deaths were recorded, showing an annual rate of 49 per 1000.

In the City of New York 449 deaths were registered in the week ending

17th ultimo, and the equivalent annual rate of mortality was 25 per 1000.

In Bombay the deaths registered during the week ending 13th ultimo were 305, and the mortality was at the annual rate of 20 per 1600. In Madras 289 deaths were registered in the week ending 26th May, showing an annual death-rate equal to 35 per 1000 of the population.

In London 1929 births and 1200 deaths were registered last week. After making due allowance for increase of population, the births were 189, and the deaths 220, below the average numbers in the corresponding week of the last ten

years.

Zymotic diseases caused 321 deaths last week, including 164 from small-pox, 12 from measles, 24 from scarlet fever, 4 from diphtheria, 30 from whooping-cough, 17 from different forms of fever (of which 8 were certified as typhus, 4 as enteric

[27.] D D



or typhoid, and 5 as simple continued fever), and 39 from diarrhea; thus to the seven principal diseases of this class 290 deaths were referred last week, against 361 and 378 in the two preceding weeks. The fatal cases of diarrhea showed a slight decrease upon the previous week, and were remarkably low for the time of year. Three deaths were referred to simple cholera or choleraic diarrhea.

The fatal cases of small-pox in London, which in the three previous weeks had been 240, 232, and 235, declined to 164 last week; this is the lowest weekly number since the end of January last. In five permanent and temporary hospitals for this disease 67 deaths were recorded last week, of which 30, 18, and 17 respectively occurred in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths, it appears that 20 belonged to the West group of Districts, 41 to the North, 10 to the Central, 31 to the East, and 62 to the South; each of these numbers showed a decline upon the previous week, but the largest decrease was in the East group of Districts. The fatality from small-pox was greatest last week in Somers, Camden, and Kentish Towns, and in Bermondsey, Battersea, and St. George sub-district of Camberwell; local outbreaks appear also to have occurred at Homerton, and in the Strand Union.

To different forms of violence 44 deaths were referred last week; of these 38 were classed as accidental, including 12 by fractures and contusions, one from burns and scalds, 10 from drowning, and 11 from suffocation. Six of the deaths from fractures and contusions were of persons run over by vehicles in the streets;

four of the victims of these accidents were children, and two adults.

In the large Public Institutions of the Metropolis 228 deaths were recorded last week, showing that of each 100 deaths in the week 19 occurred in these Institutions, of which 7 were registered in Workhouses, and 12 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.72 in.; the highest reading was 30.06 in. on Thursday morning, and the lowest 29:39 in. on Monday morning. The mean temperature of the air was 60° 5, or 1° 1 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was below the average on the first five days of the week, while an excess prevailed on Friday and Saturday; on Sunday, 2d instant, it was 57° 1, or 4° 0 below the average, while on Friday it was 65°.9, and showed a similar excess. The highest day temperature in the shade was 76° 5 on Friday, and the lowest night temperature 48° 8 on Sunday; the entire range of temperature in the week was, therefore, 27° 7. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 143° 8 on Saturday. The difference between the mean dew-point temperature and air temperature averaged 7°.9. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 61° 4 last week. The mean degree of humidity of the air was 76, complete saturation being represented by 100. The general direction of the wind was S.S.W., and the horizontal movement of the air in the week averaged 13 miles per hour. Rain fell on each of the first four days of the week to the amount of .87 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 56°·3 in Wolverhampton and Sheffield, to 68°·3 in Bradford; the lowest recorded night temperature was 47°·2 in Salford, and the highest day temperature in the shade 77°·0 in Leicester. Rain was measured last week in all these towns; the amounts varied from '50 of an inch in Norwich, to 2·13 inches in Nottingham.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 15°·8; the highest day temperature in the shade was 24°·7, the lowest night temperature 9°·3, the highest temperature in the sun was 62°·1. The mean temperature of the corresponding week in 50 years averaged 16°·4, or 0°·6 above the temperature of last week. The wind blew at the rate of 21 kilometres an hour, and the rain-fall measured 2·21 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 247,423 cubic metres, and at Barking 284,742 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the TWENTY-SEVENTH Week of Ten previous Years.

Total Births  Males Females	1747 870 877	1862 1715 862 853	1863 1937 995 942	1864 1876 967 909	1993 1005 988	1866 1950 969 981	1867 1919 982* 937	1868 2093 1050 1043	1869 1996 1022 974	2026 1057 969	Average of 10 Weeks.  1925·2  977·9  947·3	1871 1929 979 950
Total Deaths  Males Females .	1043	1159	1187	1268	1536	1292	1130	1516	1279	1497	1290·7	1200
	517	599	662	678	810	688	572	773	643	800	674·2	618
	526	560	525	590	726	604	558	743	636	697	616·5	582

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

Apr. Apr. Apr. Apr. May May 20. 27. 3. June June June July July 8.  Total Deaths 1722 1578 1469 1522 1341 1486 1401 1393 1437 1349 1296 1328 1290  Deaths under 5 years of age - 670 583 582 568 519 594 485 513 548 477 495 541 466 Deaths 5—20 174 167 158 183 142 152 153 137 150 135 131 135 122  Deaths 20—40 - 291 277 248 276 232 260 270 242 271 257 248 238 199 Deaths 40—60 262 244 226 253 189 214 227 236 218 229 196 215 190 Deaths 60—80 249 258 212 193 213 207 217 223 219 204 189 165 185 Deaths at 80 years & upwards 76 49 41 49 46 45 49 42 31 47 37 34 38  Deaths from Small-pox - 6 13 12 17 16 11 23 16 23 21 27 15 12 19 19 16 21 19 19 16 18 18 21 17 16 11 23 16 23 21 27 15 12 19 19 16 18 18 21 17 16 11 23 16 23 21 27 15 12 19 19 16 16 18 18 18 18 18 18 18 18 18 18 18 18 18														
Total Deaths	1722	1578	1469	1522	1341	1486	1401	1393	1437	1349	1296	1328	1200	
Deaths 40—60	262	244	226	253	189	214	227	236	218	229	196	215	190	
" " Measles	6	13	12	17	16	11	23	16	23.	21	27	15.	12	
", " Diphtheria -	4	. 4	7	4	2	8	2	10	6	9	34	8-	.4	
,, Enteric (or Ty-)								النتك						
,, SimpleContafever ,, Diarrhœa - ,, Simple Cholera -	9	7 15	14 14	13 13	4' 18 1	7 22 2	8 12	13- 20-	14 23	6 24	7 20 2	7 46 2	5 39	
Phthisis Bronchitis	182 189	171 145	158 133	183 123	154 108	170 100	154 95	148 81	188 93	151 90	131	147 82	165 59	
,, ,, Pneumonia - ,, Heart Disease -	84 66	80 70	72 64	58 66	50 71	62 53	52 57	58- 64	62 68	68	48 55	38 52	68	
Mean Temperature of the Air Mean Temperature of the	48.3	50.0	50.7	49.7	47.6	50.1	56.7	53.9	49.9	59.5	56.2	56.6	60.5	
Water of the Thames> Humidity of the Air	47.0	50.8	51.9	52.7	53.2	52:4	55.6		56.3	57·2 85	56·1 84	60.4	61.4	
Rain-fall in inches	-81 0·36	89 1·75	-85 0·80	74 0·20	76. 0·15	73a 0+16	72 0·22	0.10	0.31	1.05	1.50	0.05	0.87	

Note.—The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant: of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., E.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 8th day of July 1871, in the following large Towns.

		8th day	of July	1871, in t	the following	ng large	e TOWN	15.		100	, e 3
CITIES	Area	Population estimated	Persons	Births registered	DEATHS registered		TURE OF		TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FALL.
BOROUGHS.  (Municipal Boundaries for all except LONDON.)	in Acres.	to the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 8th July 1871.	during the Week ending 8th July 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Cent metr
Total of 20 Towns in the UNITED KINGDOM -	213,281	7,215,757	33.8	4355	2967	77.0	45.0	58.2	14.72	1.50	3.0
LONDON	77,997	3,263,872	41.8	1929	1200	76.5	. 48 3	60.5	15.83	0.87	2.5
PORTSMOUTH	9,513	113,450	11.9	64	34	73.3	50.0	58.9	14.94	0.69	1.7
NORWICH	7,472	80,533	10.8	□ 45	19.	75.5	48.5	58.6	14.78	0.20	1.5
BRISTOL	4,688	183,298	39.1	125	59		:				-
WOLVERHAMPTON -	3,387	68,476	20.2	31	17	69.*8	48°5	56.3	13.50	1.11	2.8
RIDWINGHAM	7,831	344,980	44.1	245	126	70.0	48*8	56.6	13°66	1.16	2.9
BIRMINGHAM	3,200	95,882	30.0	58	35	77.0	47.7	58.4	14.66	1.28	4.0
NOTTINGHAM	1,996	86,929	43.6	47	26	72.3	47.9	57.8	14°33	2.13	5.4
LIVERPOOL	5,108	494,649	96.8	327	248	72.3	50.7	57.9	14:39	1.35	3.3
MANCHESTER	4,486	356,099	79.4	223	178	71.0	48.0	58'3	14.61	1.05	2.6
		- 11				68*7	47.2	56.5	13.61	0.98	2.4
SALFORD -	5,172	125,422	34.3	72	61 69	70.3	51.2	68*3	20.17	0.64	1.6
BRADFORD -\ -	6,590	146,987	22·3 12·1	99	97	69.0	49.0	56.9	13.83	1.20	4.0
LEEDS	21,572	260,657		74 158	89	68.0	49.0	56.3	13.20	1.76	4.4
SHEFFIELD	22,830	241,507	10.6	73	34	71.0	49.0	56.9	13.83	1.20	4.0
HULL	3,562	122,266	34.3	7.5	0:11	110	20 0			1 00	
SUNDERLAND	3,306	98,797	29*9	69	82				-		-
NEWCASTLE-ON-TYNE	5,336	128,677	24°1	99	74		-	_		and a	-
EDINBURGH	4,427	201,728	45.6	132	82	72.7	50.0	58.9	14.94	0.90	2.5
GLASGOW	5,063	479,227	94.7	349	311	68.0	48.0	58.2	14'55	0.84	2.1
DUBLIN - *	9,745	322,321	38 1	136:	126	73.9	45.0	58.6	14.78	1.61	4.0

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by addi 1-40th of the rate of increase which prevailed between 1861 and 1871; the numbers for Edinburgh and Glasgow have be furnished by the Registrar General of Scotland, while those for Dublin are still the estimated numbers recently used.

TABLE 2.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Western Company of July 1871.

		ending 8	Javaraay	emo ou	ar any	01 0	LLY I			-				-
	ANNUAL		3		Th	e DEAL	rns regi	stered	in the	Week it	nclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up- wards.	Small-por.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public
Total of 17 Towns -	21	2448	604	404	269	54	44	5	53	51	72	92	144	3
LONDON	19	1200	273	223	164	12	24	4	30	17	39	44	64	22
PORTSMOUTH	16	34	5	4	1		7	-	-	1	200	~	-	1
Norwich	12	19	3	5		-	- 1	-	-	3	-	1.	1	
BRISTOL	17	59	13	9		-	1	-	3	2	1	4 .	5	
WOLVERHAMPTON-	13	17	5	-6	-	-	-	-	1		-	~	-	
BIRMINGHAM	19	126	34	13	2	7	-	340	. 5		. 3	12	18	3
LEICESTER	19	35	15	5	-	1	2		-	-	1	1	1	
NOTTINGHAM	16	26	7	5	-	-	-	1,00	100	1	-		1 100	
LIVERPOOL	26	248	62	41	27	12	6	-	5	14	10	11	18	*
MANCHESTER	26	178	45	17	10	5	, 5	-	3	4 -	4	6	16	3
SALFORD	25	61	19	6	. 5	6	-	-	/ =	-	3	m 42	1	
BRADFORD	24	69	17	17	- 1	-	1	1	1	3,	3	-	-	
LEEDS	19	97	36	16		2	1	nee .	-	1	J 4s	1	5	
SHEFFIELD	19	89	25	18		5.	3	-	3	3	1	4	4	1 4
HULD	15	34	6.	6.		3	'	-	1	1	-	4	4	1
SUNDERLAND	43	82	23	5,	45	-	1		1	1	2	2	2	1 3
NEWCASTLE-ON-TYNE -	30	74	16	.8.	15	1	~	-		5	1	2	5	1
DUBLIN	20	126	21	35	3	1	1	1	3	10	1	2	,1	4

TABLE 5 .- DEATHS in LONDON Registered in the TWENTY-SEVENTH Week of the Year 1871.

CAUSES OF DEATH.	TABLE 3.—D.	DAILIS .	111 110	MD	014	ice	iste	ıçu	111	the I WENTI-SEVENTH V	VCCK U	tile	10	al J	107			
Mean Temperature		Week Week									Week N-70.		In t	he V	Veek , Jul	endi y 8, 1	ng 1871.	
Mean Temperature		s of the		Dea	ths o	f Per	sons	of			s of the enth irs 186		Dea	ths o	f Per	rsons	of	
Mean Temperature	CAUSES OF DEATH.	erage ty-sev 10 yea				r 40.	. 60.		pu;	CAUSES OF DEATH.	rerage y-sev 10 yea				. 40.	. 60.		pur
### All CAUSE   13907   1300 466 122 100 150 156 38   \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		Twent in the	Mean		0.	unde		under	ars a		Twent in the	Mean		0.				ars a
SPECIFIED CAUSES  12. YAYOUTC DISCASES.  12. YAYOUTC DISCASES.  13. Small-pox - 1508	Mean Temperature -	60.8		0-5.	5-20.	20 and	40 and	60 and	80 Ye	Mean Temperature -			0-5.	5-20.	20 and	40 and	60 and	80 Yeu
SPECIFIED CAUSES 1270:8   1105   460   122   109   188   180   35   11.	ALL CAUSES	1290.7	1200	466	122	199	190	185	38	9. Stricture of Intestines -	*8	1	-	-	-	1	,-	-
1. A. P. A. C.	SPECIFIED CAUSES	1275.8	1195	463	122	199	188	185	38	11. Stomach Disease, &c 12. Pancreas Disease, &c	7.1	2	-	-	1	1		
1. Semila-pox   - 15-8				ı				П		14. Jaundice	3.9		1	~	- 4	1 8	2 7	ī
4. Dighteria	1. Small-pox	41'7	164 12	12	-		-	-	П	16. Spleen Disease, &c	2		1		_			
6. Groop   1976   88   8   1   1   1   2   2   1   1   2   2   1   1	4. Diphtheria	9.5	24	19	3		-	-		1. Nephritis	*5. *1	2	1		-	ī	-	
Simple continued Fever   96	6. Croup 7. Whooping-cough	12.6		8		-	-	-	B	3. Bright's Disease (Nephria)	1.6	. 6		1			1	
0. Ergispleas 10. Therprent Evert (Metria) 11. String of the Control of the Contr	- Enterio or Typhoid Fever	45.9	1 4	1	1 2			1		6. Cystitis	1.3			-	~	1	4	
12.   Interests	9. Erysipelas 10. Puerperal Fever (Metria)	2.7	9 2	2		2	-	4	-	ORDER 6.						_		
13. Nimple Cholers	12. Influenza	2	1	-	=	-	-			2. Uterus Disease, &c		1	=	_	-	ī	-	
13. Riemittent Fever   6-9   6-1   8   1 - 1   18. Riemintson   1-18   18. R	14. Diarrhœa – – – – – – – – – – – – – – – – – – –	124.6	39	38	-	-	1	-	1	1. Synovitis (Arthritis)		1 7		-4	- 1	1 2	-	-
Symbile	17. Remittent Fever 18. Rheumatism	1.0	1 - 1		-		-	_	1	ORDER 8.		-						
1. Privation	ORDER 2.		-		-		-				*8	- 1	-	83			-	
Condition	2. Stricture of Urethra -	1.3				1				IV. DEVELOPMENTAL								
1. Privation — 6 3 3 3	4. Glanders		i			1		_	E	ORDER 1.			ı					
Acceptable   Acc	1. Privation 2. Want of Breast-milk -	11.1	3	3		-	-	-		2. Cvanosis	1.7	]	1		-		-	
Thrush	3. Purpura and Scurvy 4. Alco- a Del. Tremens bolism b Intemperance	1.2 2.3	3		-	1	2			4. Other Malformations -	2.3	1	1 17		-		-	H
CONSTITUTIONAL DISCORDER 1.   Control   Cont	ORDER 4.									ORDER 2.	•1		-					
ORDER 1.   1. Gout	2. Worms, &c		1		1					2. Childbirth (see Puerperal)		5	_	-	5	_	_	H
2. Dropsy   16·1	ORDER 1.	7:0				7	9	9			35.9	44			_		21	23
4. Cancrum Oris (Noma) - 3.70	2. Dropsy	16.1	4	1	-	-	- 1	2	8	ORDER 4.								
1. Serofula 9:1	5. Mortification	.5	2					2			69.7	56	50			_	6	
3. Phthisis — — — — — — — — — — — — — — — — — —	1. Scrofula	9*1		2	1	1	1	-	Ŀ	ORDER 1.			ı					
III. LOCAL DISEASES.   ORDER 1.   1.   1.   1.   1.   1.   1.   1.	3. Phthisis 4. Hydrocephalus	153.2	165	9	23 4	78 1	45			1. Fractures and Contusions		12		4	4	3	_	٨
1. Cepholitis 13·7   18   13   1   1   3   17   2   4   4										3. Burns and Scalds	3.7	1	ī	-	-		-	E
3. Paralysis 23:0 4. Insanity 1:9 5. Chorea 1:1 6. Epilepsy 5:7 7. Convulsions 48:6 8. Brain Disease, 9c 17:5 14. 3 - 1 3 7  ORDER 2. 1. Pericarditis 2:4 1. Aneurism - 2:5 2. Aneurism - 2:5 3. Heart Disease, 9c 50:1 68. 2 6 15 22 21 2 1. Wounds {Gunshot - 4:6 (SUICIDE.) 2. Aneurism - 2:5 3. Heart Disease, 9c 50:1 68. 2 6 15 22 21 2 1. Laryngitis 4:1 5. 2 2 1. Laryngitis 1:0 2. Bronehitis - 60:8 5. 2 - 2 2 1 2 2. Poison - 58 1. Laryngitis 1:0 3. Pleurisy 66:8 5. Ashma 4:1 4. Pericardinis 4:4 4. Preumonia - 48:4 5. Ashma 4:1 5. Laryngitis 1:4 6. Laryng Disease, 9c 9:4 11. To 2 2 1 1. Castritis 1:4 1. Rostoritis 1	1. Cephalitis			13	1	1	3	17	- 3	5. Drowning	6.0	31	7	2	- :	-	- 1	E
T. Convisions		23.0	22		_		3 -	15	82		2.8	-2		_		_	-	
8. Brain Discuss, &c 17.5	6. Epilepsy 7. Convulsions	5.7		1 38			2	-			9.0		ı					
1. Pericarditis 2 4 1 1 1 2 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8. Brain Disease, &c ORDER 2.	17.5	14	3	_	_1	8	7		ORDER 4.				-	_	-		
ORDER 3.  1. Laryngitis 4.1	1. Pericarditis	2.2	1 2	- 0	- 0	2	}	- 21		(SUICIDE.)  1. Wounds {Gunshot -	. 4	-	-	-	-	-	_	-
2. Bronchitis 60°8   59   22 - 2   12   22   1   4. Hanging 1.9   1   1	ORDER 3.				-	10			-	2. Poison	.8 .8	1	-	- 1			ī	=
ORDER 4.  1. Gastritis 1'4	2. Bronchitis	60'8	59	22	~	-	12	22	- 1	4. Hanging	1.9	1 -	-	- 1				-
ORDER 4.  1. Gastritis 1'4	5. Asthma	4'1	4			- 1	2 2	2	-									
3. Peritonitis 4*8 3 3 Violent Deaths (not classed) **3 2 - 1 1 4** 4. Ascites 4** 2** 9 1 1 1 - Sudden Deaths (Cause un - 2** 2** 4 1 1 2 - Sudden Deaths (Cause un - 2** 2** 4 1 1 2 - Sudden Deaths (Cause un - 2** 2** 4 1 1 2 - Sudden Deaths (Cause un - 2** 2** 4 1 1 2 - Sudden Deaths (Cause un - 2** 2** 4 1 1 2 - Sudden Deaths (Cause un - 2** 2** 4 1 1 2 - Sudden Deaths (Cause un - 2** 2** 3 3 3	ORDER 4.	1.4				-		1	1				_			-	_	-
6. Ulceration of Intestines - 2 2 3 1 1 1 - Sudden Deaths (Cause un) 2 0 3 3 6. Hernia 2 2 4 1 1 2 - ascertained) 3 2 3 1 1 2 - Causes not specified or ill-) 10 0 0	4. Ascites	8°1	3 1	- 1			- 1	-	[	Violent Deaths (not classed)	.3	2	-	1	-	-	-	1
1. Heus 3'2   3   1   -   -   2   -    Causes not specified or ill-   10:0   0   -   -   2   -	5 Illegration of Intestings	2.2	3	1	-	1	1	7	-	Sudden Deaths (Cause un-	2.0	3	3	-	-	-	-	-
	8. Intussusception	3.5	3 -	1 -	-	-	-	2	-	defined	12.9	2	-	-	-	2	-	-

## 228 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

TABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

													du	ring	the '	Weel	k end	ling
			during	during				The l	DEATE	is reg	istere	d in t	he We	ek in	elude			
REGISTRARS' SUB-DISTRICTS.		Enume- rated Popu- lation, 1871.	Total Births dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON -		3,251,804	1929	1200	273	223	164	12	24	4	30	8	4	5	39	44	64	228
WEST DISTRICTS NORTH DISTRICTS - CENTRAL DISTRICTS - EAST DISTRICTS SOUTH DISTRICTS		561,189 751,668 333,887 638,928 966,132	303 424 172 419 611	193 296 119 219 378	42 60 23 60 88	41 54 26 42 60	11 70 3 18 62	3 4	5 2 2 3 12	- 8 - 1	6 9 4 3 8	1 3 - 1 3	1 - 1 1	- 1	7 7 4 15 6	4 6 5 8 21	7 8 10 13 26	23 92 30 29 54
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Brompton H - St. Peter Hammersmith - St. Paul Hammersmith H - Fulham WLLLL - Chelsea South HH - Chelsea North-west HWW - Chelsea North-east L - Hanover Square - May Fair W - St. John Westminster HHH St. Margaret Westminster W St. James's Square Golden Square Golden Square Berwick-street HH	VHH -	58702 38082 91583 28651 6662 36030 23378 26419 23278 21389 18700 13020 58043 38470 27640 10453 12855 10279	43 14 58 14 4 28 13 7 13 14 10 4 26 19 12 2 6 5	25 14 27 11 12 9 13 11 6 4 2 19 7 7	5252 -41 242 1 -232 1124	5581 -1 - 828 -1522 II	- 1 - 31 21 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	111111111111111	2 1 1 1 1	111111111111111111111111111111111111111	114 111 111 111 111	1 1 1 1 1 1 2	121	1	1 3 2 1	3 3 3 1 7 - 7 - 2 - 2 - 1
St. Anne Soho HH - NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square - W + St. Mary Marylebone H - Christehurch Marylebone - St. John Marylebone - St. John Marylebone - Hampstead WHH - Regent's Park Pancras - Tottenham-court wH - Gray's Inn Lane H - Somers Town - Camden Town W - Kentish Town W - Islington West* WHHH Islington East Www - Stamford Hill - West Hackney - Haskney WwHL - South Hackney L - South Hackne		28574 16419 28387 28387 28387 28110 32271 88192 29360 29216 88562 18068 97391 115948 9819 6559 28076 50037 30305	8 7 18 16 25 15 8 23 12 15 25 20 85 67 70 7 21 16 25 15	20 22 13 7 7 12 42 11 11 14 17 18 29 36 2 -7 36 8	1 1 1 1 3 2 3 6 3 2 3 4 1 5 9 6 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5 17 11 2 4 14 12 4 4 11 11 13 1	1 1 1 1 - - 30 - 1 - 32 4 4 - - - 22 1	111111 11111 111111			1 1 1 - 2 1 - 1 1	21		80 11111111111111 N	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	8 -7 1
CENTRAL DISTRICTS.  St. Gaerge Bloomsbury - St. Giles South WH - St. Giles North - Long Acre - Charing Cross WH - St. Mary-le-Strand - St. Clement Danes H - St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell W- Amwell Clerkenwell W- Amwell Clerkenwell W- Pentonville - Goswell-street - City-road WHHL - Whitecross-street - Finsbury - St. Botolph East London HH Cripplegate - St. Sepnlehre H - St. Bride W - Castle Baynard - Christehurch - Queenhithe - Allhallows Barking - Broad Street -		17843 19049 16497 11923 9881 9876 10711 18798 9051 18912 16878 16220 12156 18291 13790 10732 1484 13839 4389 4398 4398 4398 4398 4398 4398	11 76 8 12 4 20 8 31 17 5 9 5 14 4 9 18 18 18 18 18 18 18 18 18 18 18 18 18	4 8 10 2 9 3 6 5 12 5 3 4 4 8 2 2 3 2 3 5 6 3 13 3 1 1 2 1 1	1 2 4 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1	141115511111111111111111111111111111111	1		1		1						1 1 2 2 2	3 8 8

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 229

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 8th July 1871.

Saturday, 8th July 1871.																	
		during	during			7	The D	EATHS	regis	tered :	in the	Wee	k incl	ıde			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch — — — — — — — — — — — — — — — — — — —	12429 16545 27832 26944 24153 19257	7 16 13 11 17 14	3 9 9 4 9 7	1 2 3 -2 4	1114	11111	111111	1	111111	1	1	11111	1.1.1.1.1	- - - 1	111111	12111	2 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	21 41 31 12	11 19 5 7	6 3 2 3	5 -	2 1 2	1111	2 -	1111	1111	1111	1111	1111	1 - 2	1 -	1111	2 -
Artillery Whitechapel Spitalfields	6651 15844 15550 11484 7823 10381 9149	2 11 9 6 8 3 5	1 11 9 2 6 4 4	3 3 1 1 2 1	43211	1		1111111	1111111	1111111	1111111	1111111	111111	1 1 1 1 1 1	i i i i i i i i i i	1 1 1 2	4 - 2
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	13 16 2	7 6 2	3 -	- 2	-		1.	-	7 -		-	111	1.1.4	- 1-1	-	- 2
Shadwell W	11623 15930 30025	6 9 22	6 10	1	2	=	ī	-	= -	ī	111		111	-	1 -	1 3	ī
Mile End Old Town West Mile End Old Town East WwH -	38126 55020	24 26	11 19	5	3 6	2 2	-	-	7	1 -	-	-	-	ī	E	ī	4
Bow WwHL†	67777 48560	50 24	25 13	8	3	.3	1 -	-	-	-	-	1 -	-	3	1 2	3	6 5
SOUTH DISTRICTS.  Christchurch Southwark W - St. Saviour Southwark H - Kent-road WH Turnity Newington St. Peter Walworth W St. Mary Newington H	14547 15667 20430 16694 18959 23673 48232 16786	8 12 13 13 15 14 20 10	6 3 7 6 6 14 12 11	1 2 3 2 4 5 2	3 - 1 - 1 1	1 3 1 2 1 2	LITTELL	TO FORTER	11 11 1 11 1	710 71		1	fillini.	F1111 F41	I I I FI I HI	.11111111111111111111111111111111111111	1 1 1 1 5
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	2 6 12 14 33 11	10 12 8 16 13	- 4 2 5 -	1 3 1 2 1 2	- 3 3 2 1	2 1	1 1	111111	1	111111		111111	1	111115	1 5	4 5 - 1
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W Kennington 1st W Kennington 2nd Brixton Hu Norwood W	14086 18453 19470 35831 41284 31213 35431 12534	13 17 17 26 25 17 20 4	8 8 5 14 13 6 29 2	2 1 6 4 1 3	1 1 - 2 3 1 2 1	2 2 1 20	1111111	2 2 -	1111111	1111	11111111	11111111	31111111	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 1 - 1 - 1	5 - 17 -
Clapham HL Battersea W	27348 53988 19797 9488 14479	20 32 7 7 13	11 23 5 2 3	3 6 1 -	1 3 1 1 2	2 5 1 -	1111	2	1	111111	1		1111	2 -	111	3 1 -	2 2 -
Dulwich	4941 31251 42159 33851	2 18 38 21	14 12 15	- 1 4 6	6	1 1 5	- - 1	-	11111	1	1111		1111	1 -	- 1	1	2 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH Greenwich East	53696 6487 21098 19320	35 2 9 10	18 3 8 12	5 3 1	3 1 7	1 -	1111		11.01	1111	1111		i	1.1.1.4	1 2 -	1 - 3	- - 6
Eltham	4528 16430 11508 19016	1 5 8 11	3 2 7	1 3	- 8	1111		1111		1111		1 1 1	1111	1111	1111	1111	=
Charlton H	9503 17229 18319 13028 10290	10 15 10 11	2 6 6 5 3	1 2 1 -	1 2 1	1111	11117	11771	11111	11111	1 1 1 1 1	11111		11111	1 2 1 - 2	2 1 2 - 2	1 -

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - , , , Tottenham-court sub-district.

London City - , , Handre Strand Fast.

Do. do. - , , , Hackney sub-district.

TABLE V.-METEOROLOGICAL OBSERVATIONS taken at the ROTAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 8th July, 1871. [Under the Superintendence of the Astronomer Royal.]

NIOON, MEXER.   AND DAY.   BARO-   READINGS OF TRERROUM   And DAY.   Colin.   Coli					ž.				Meteor	rologu	cal	Obse	erva	tion	S.				
Victor   14.50c   1.00c   1.				91.		\ :	:	:::	:::	:	26	nean	hose .W.;	dry nean five	and and sults the well	rage rva- r 31.	d as ring	Col.	ased to
Victor   14.50c   1.00c   1.		KAIN.	Collected in a Gauge	whose	is 5 in. above the	Inches 0.18	0.59	0.26	00.0	Sum 0.87	. 25	ve the n	n at 9h. A	ter, the dinto n.S., from	the mean of the dry The rest, include P.M., as	The ave rical obse December	inderstoo	ed under of Lieut.	decrease th; decre sth; and
Victor   14.50c   1.00c   1.			Rebinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	349	358 360 345	255	Sum 2253	24	feet abo	coincider are taker	converte sher, F.R.	values of edition. column ?	to each.  ermometring 1863,	e to be unse of se	rmission	the 4th; on the 61
Victor   1,000   1,0	ı				Mean of 24 Obs.	lbs. 0.1	2.0	0.3	100	:	60 01	be 159	to be ations	of the es, are s Glais	daily daily bed in F.M.	mome pplied the	ons ar	nts are by pe	M. on A.M. h. P.M.
Victor   1,000   1,0	ı		momet	onsquar		lbs. 0.0	0.0	0.0	000	:	222	od to	idered	dings se time Jame	ans., I mean les, Fo sxhibit	n ther eing a from 50 year	servati	ship,	at the gh. A. by 9h. fill 8
Victor   1,000   1,0		WIND.	rom An	ressure		lbs. 1.5	0.5	3.7		:	21	nsider	e cons	at these	hil. Tr those al Tab nbers M.; nc	tions baisher	ical obsght.	ese ins rd the n Polic	in. by 106 in. tionary
Victor   1,000   1,0			As deduced 1			ENE. &			SSW. & S.	W.	30	NOTES.	arometer al	means of tropic observed ctions dedu	er 31.—See Feduced from Hygrometric or the nursiand at 9h. A	roper corrected by Mr. Greenwich, i	meteorolog tht to midni Thames is	dings of the	used from 2 ed to 29.59 reased to 30 s nearly sta
NGON-   BATO-   AND DAT.   Continue   Cont				General D	A.M.	S., NE., &		SSW. & S. SW.	SSW. & WSW.	SS	19	of the bare	ngs of the Lass standard	thermometer ion of corre	345, December and Glaisher's Is of the air, mometer, re	the maxin teters, the part at determin servatory, G	the teward be the of all the from midnig ater of the rom the sid	ce. The rea ident inspen missioner of	The reading of the barometer decreased from 29.77 m. at the Decining on the week to 29.39 in. by 10.4. A. on the 3d; increased to 29.59 in. by 10.4. A. on the 4th; decreased to 29.53 in. by noon on the same day; increased to 30.96 in. by 9h. A.M. on the 6th; decreased to 29.73 in. by 9h. P.M. on the 7th; was nearly stationary till 8h. P.M. on the 8th; and was 29.73 in. at the enlofthe week.
NTOON   LAADOR   LA		Degree of Hu-	midity, complete Satura.	tion being		82	22	82	99	16	18	oistann	he readii	he wet applicate	e of hun ters by perature dry ther	ced fron thermon air is the Coyal Ob	the result day, or of the w	he surfa the res	on the sail the sail w. on the of the w
NTOON   LAADOR   LA	Transfor In		Between mean tem- perature of	the day and mean tem-	the same day on an average of 50 years.	1 4.0		1   8 8 1		- 1.1	17	wht of the	he sea. T	r. P.M.; an	ervations e and degre thermome daily tem	sults dedu gristering are of the	ung une 17 average. J to the civil nperature	set below t indence of m, R.E., C.	ading of the symmetry of the s
NGON-   BATO-   AND DAT.   Continue   Cont		ERENC	Point re	ure.	Least.	0.8	2.1	1.7	2 6 4 0 2 4	2.4	16	od od	al of the he	rmomely value	rs' obs	the re self-re operations take	In real of the solying the ter	out 2 for	The respondence 189 in. 189 in. 178 in. 189 in
NOON   EARO-   Real   NOON   EARO-   Real   NOON   EARO-   Name   Noon   Earo-   Earo-   Noon   Earo-   Noon   Earo-   Ea	DOLL AND	DIE	an Dew mperatu and	empera	Great- est.	12.2	0.6			15.1	15		level of t	-			ap th		
NIOON   BARCO   READINGS OF THERROOM   Low   Reading and reading	(h an		Betwe	Air 7	daily value.	5.6	8.5	6.00	11.8	7.9	14			eteadil		at time	cloud t flashes injed b	between	minatin
NIOON   BARCO   READINGS OF THERROOM   Low   Reading and reading	Incenne		ater of mes at	ich, by stering	Lowest.	59.3	29.0	0.09	59.0 59.6 61.2	59.8	13			tain fell		heavily night.	Frequen accompt	rain fell l in the a ly till nig	n. he predo
NIOON   BARCO   READINGS OF THERROOM   Low   Reading and reading	e samer		In the W	Greenw self-reg	Highest.	63.1	9.79	62.6	62.0 63.0 63.0	62.8	12	PHERE			avy show	and very reast till	nn.l 3h. ollowed. rain fell,	rops of ar also fel	after noo ti were t
NIOON   BARCO   READINGS OF THERROOM   Low   Reading and reading	naer in	ERS.	Lowest on the 3rass, as	a self-	ing finimum fhermo- meter.	40.8	49.4	48.5	43.1 54.7 49.0	47.4	=	TMOS		hen var	uent he	taily ove	noon storm fileavy	A few d ht show prevale	loudless ulo-stra
NICON.   BARO-   REAR	01	PREBATOMET	-	a sent-regis-		81.9	119.5		120·7 132·9 143·8	122.6	10	X AND A		evening; tl	day. Freq Thunder be ne night.		Between 1vy thunder observed.	fternoon.	fine day. Generally cloudless after noon. ne. Cumuli and cumulo-strati were the predominating cloud throughout.
NICON.   BARO-   REAR		GS OF 7	Dew Point.	Mean		51.5	52.7	54.5	52.4 54.1 51.1	52.6	6	SI		ill the	day.	between and Sh.	d a her were	the a mid-d	fine day. Genera ne. Cumuli and cloud throughout.
MIOON   BARD	۱			Me	daily value.	57.1		57.7	65.9		000			ercast t	rery varied the 54m. P.1	in fell een lh. 9h. P.M	fine mered, anghating	oudy til	
MOON. AETER.   AND DAY.   AETER.   ATER.   AETER.   ATER.   AETER.   ATER.   AETER.   ATER.   AETER.	1		Ģ.	Range	in day.	15.2					1			from from				Cloud'v 9h. A.M. Light clo	A very Very fi forms of
AND DA AND DA AND DA ANY BAX Column Column TE. TY  Y  Y  Y  AY  G  AX  C   1		Q		Low- est.	48.					9				sositive s and ctricity	ension, rrents,	of the nega-alvanic	ing:		
AND DA AND DA AND DA ANY BAX Column Column TE. TY  Y  Y  Y  Y  G  AN  C											20	NITY.		00n.	trong p spark No ele	in mable tanic cu	nidlle tive and and g	le morn	shown, ght,
AND DA AND DA AND DA ANY BAX Column Column TE. TY  Y  Y  Y  Y  G  AN  C		METER.	Mean daily reading	rected	duced to 32 degr. Fahren			29.582	30.045 29.847 29.743	29.720	1 4	ECTRI		itive at no	Ilb. 27. I. very s ve, with rrents.	regative vith vari and galv	rong positions sparks	itive in th	No electricity was shown. Weak positive at night,
AND DA AND DA AND DA ANY BAX Column Column TE. TY  Y  Y  Y  Y  G  AN  C		MOON.		Phases	Moon.	Full.	Greatest Dec. S.		:::	1:	00	EI		Weak pos	Between h. 6m. P.N nd negati nlyanic cu	Weak rositive writh sparks	Through ay very st ve, with irrents.	Weak po.	No electr Weak pos
1871.  JULY.  AAY  SERANS  TO OLY.				1	UAI:		00			1:	mns.			63				9	r- 00
MONTH A  JU  JU  SUNDAY  MONDAY  WENDAY  NEDAT  JULY			1871.		MONTH AND	JULY.	MONDAY .	TUESDAY .	THURSDAY. FRIDAY.	MEANS	No. of Columns	DATE.	JULY.	SUNDAY .	Monday .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAT .

n promise a Sportite wood Printers to the Onem's most Excellent Maiesty. For Her Maiesty's Stationery Office.

## WEEKLY RETURN

#### BIRTHS AND DEATHS IN LONDO AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 28. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JULY 15. Price 1d.

> General Register Office, Somerset House, 17th July 1871.

During the week ending Saturday the 15th July, 4458 births and 3044 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality in the week was at the annual rate

of 22 deaths in every 1000 persons living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:-London 20 per 1000; Portsmouth 12, Norwich 14, Bristol 19, Wolverhampton 10, Birmingham 23, Leicester 23, Nottingham 19, Liverpool 27, Manchester 27, Salford 28, Bradford 21, Leeds 19, Sheffield 24, Hull 22, Sunderland 48, and Newcastle-upon-Tyne 25. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had declined from 371 to 269, were last week 264; of these 133 occurred in London, 22 in Liverpool, 53 in Sunderland, 20 in Newcastle-upon-Tyne, 30 in Manchester and Salford, 2 each in Leeds and Sheffield, and one each in Bristol and Nottingham; these numbers showed an increase in Manchester and Sunderland, while they had declined in most of the other towns. The annual death-rate in the week from small-pox was equal to 2 per 1000 persons living in London and Liverpool, 3 in Manchester and Salford, 8 in Newcastle, and was again so high as 28 per 1000 in Sunderland.

The fatality from small-pox in Southampton continues to decrease; the deaths from this disease, which had been 14 and 11 in the two previous weeks, further

declined to 7 last week.

In Edinburgh the annual rate of mortality from all causes last week was 26 per

1000 persons living, in Glasgow 28 per 1000, and in Dublin 17.

In Paris 790 deaths were returned in the week ending 14th instant, and the annual death-rate was equal to 23 per 1000 of the estimated population. In Brussels 99 deaths occurred in the week ending 8th instant, and the annual deathrate was 28 per 1000. In Berlin during the week ending 13th instant 725 deaths were recorded, of which 117 were referred to small-pox and 180 to diarrhea, showing an annual rate of 40 per 1000.

In the City of New York 486 deaths were registered in the week ending

24th instant, and the equivalent annual rate of mortality was 27 per 1000.

In Bombay the deaths registered during the week ending 20th June were 318, and the mortality was at the annual rate of 20 per 1000. In Madras 268 deaths were registered in the week ending 2nd June, showing an annual death-rate equal to 33 per 1000 of the population.

In London 1904 BIRTHS and 1259 DEATHS were registered last week. After making due allowance for increase of population, the births were 275, and the deaths 200, below the average numbers in the corresponding week of the last ten years.

The mortality in the Western group of Districts was at the annual rate of 20, in the Northern group of 21, in the Central group of 21, in the Eastern group of

22, and in the Southern group of 19 per 1000 persons living.

Zymotic diseases caused 353 deaths last week, including 133 from small-pox, 22 from measles, 40 from scarlet fever, 9 from diphtheria, 23 from whooping-cough, 23 from different forms of fever (of which 7 were certified as typhus, 10 as enteric or typhoid, and 6 as simple continued fever), and 64 from diarrhea; thus to the seven principal diseases of this class 314 deaths were referred last week, against 378 and 290 in the two preceding weeks. The fatal cases of diarrhea which had been 20, 46, and 39 in the three previous weeks, rose to 64 last week; the deaths

[28.]

from diarrhoa in the corresponding four weeks of 1870 averaged 199, when the mean temperature of the air was 63°·1, instead of 58°·8, the mean of the four weeks ending last Saturday. It has been remarked that whenever the mean temperature of the water of the Thames touches 60° Fahrenheit an increased fatality from diarrhoa is soon observed. Four deaths in London were referred last

week to simple cholera, three of which were of infants.

The deaths from small-pox in London have shown a marked decrease during the past three weeks; the fatal cases, which in the two previous weeks had been 235 and 164, further declined last week to 133, the lowest weekly number since the beginning of January last. In six permanent and temporary hospitals for this disease 41 deaths were recorded last week, of which 13, 6, and 15 respectively occurred in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths, it appears that 13 belonged to the West group of Districts, 38 to the North, 10 to the Central, 22 to the East, and 50 to the South; the decline in the fatal cases of small-pox in the Metropolis was shown about equally in these several groups of Districts.

To different forms of violence 55 deaths were referred last week; of these 45 were accidental, including 19 by fractures and contusions, 4 from burns and scalds, 8 from drowning, and 11 from suffocation, of which 9 were of infants. Six of the deaths from fractures and contusions were caused by horses or vehicles in the

streets; 3 were of children and 3 of adults.

In the large Public Institutions of the Metropolis 274 deaths were recorded last week, showing that of each 100 deaths in the week 22 occurred in these Institutions, of which 10 were registered in Workhouses, and 12 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.76 in.; the highest reading was 29.90 in. at the end of the week, and the lowest 29.43 in. on Tuesday. The mean temperature of the air was 61°.7, or 0°.8 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was slightly above the average on Sunday, was in defect on the four following days, and again showed an excess on Friday and Saturday; on Tuesday the mean temperature was only 54° · 2, and 7° · 6 below the average, while on Saturday it was 68° · 5, and in excess by 6° 0. Saturday was the hottest day we have had this year. The highest day temperature in the shade was 80°.6 on Saturday; the lowest night temperature 49°0 on Monday; the entire range of temperature in the week was, therefore, 31°.6. The highest temperature in the sun, as shown by a selfregistering thermometer, with a blackened bulb in vacuo, placed on the grass, was 145° 5 on Saturday. The difference between the mean dew-point temperature and air temperature averaged 7°·1. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 63° 2 last week. The mean degree of humidity of the air was 78, complete saturation being represented by 100. The general direction of the wind was S.W., S.S.W., and W.S.W., and the horizontal movement of the air in the week averaged 12 miles per hour. Rain fell on five days of the week, to the amount of 1.51 in., and ranged from 0°02 of an inch on Thursday to 1°28 on Tuesday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 57°·6 in Salford to 61°·3 in Norwich; the lowest recorded night temperature was 45°·9 in Salford, and the highest day temperature in the shade 79°·5 in Norwich. Rain was measured last week in each of these towns; the amount varied from '32 of an inch in Hull to 1·92 inches in Portsmouth.

In Centigrade degrees the mean temperature of the air last week at Greenwich was  $16^{\circ} \cdot 50$ ; the highest day temperature in the shade was  $27^{\circ} \cdot 5$ , the lowest night temperature  $9^{\circ} \cdot 44$ , the highest temperature in the sun was  $45^{\circ} \cdot 28$ . The mean temperature of the corresponding week in 50 years averaged  $16^{\circ} \cdot 94$ , or  $0^{\circ} \cdot 44$  above the temperature of last week. The wind blew at the rate of 19 kilometres an hour; and the rain-fall measured  $3 \cdot 84$  centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Barking was 236,823 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered Last Week, and in the Twenty-eighth Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Average of 10 Weeks.	1871
TOTAL Births  Males Females .	1902 945 957	1707 882 825	1983 989 994	955 919	1928 984 944	1963 987 976	2127 1061 1066	2143 1111 1032	2051 1030 1021	2131 1072 1059	1980·9 1001·6 979·3	1904 959 945
Total Deaths Males Females .	1106 553 553	1065 561 504	1287 659 628	1300 667 633	1392 775 617	1540 829 711	1262 696 566	1505 774 731	1313 685 628	1498 777 721	1326·8 697·6 629·2	. 1259 - 639 - 620

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

								-					
	Apr. 22.	Apr. 29.	May 6.	May 13.	May 20.	May 27.	June 3.	June 10.	June 17.	June 24,	July 1.	July 8.	July 15.
Total Deaths	1578	1469	1522	1341	1486	1401	1393	1437	1349	1296	1328	1200	1259
Deaths under 5 years of age - Deaths 5-20	583 167	581 159	568 -183	519 142	594 152	485 153	513 137	548 150	477 135	495 131	541 135	466 122	507 127
Deaths 20—40 Deaths 40—60	277 244	248 226	276 253	232	260 214	270 227	242 236	271 218	257 229	248 196	238 215	199 190	202 182
Deaths 60—80 Deaths at 80 years & upwards	258	212 41	193 49	213 46	207 45	217 49	223 42	219 31	204 47	189 37	165 34	185	197
Deaths from Smallpox, Measles	276 13	261 12	288 17	232 16	267 11	257 23	229 16	245 23	240 21	232 27	235 15	164 12	133 22
,, Scarlet Fever - ,, Diphtheria - ,, Whooping-cough	27 4 44	30 7 45	29 4 36	35 2 25	28 8 43	28 2 48	25 10 28	34 6 32	17 9 29	24 ·3 33	16 8 36	24 4 30	40 9 23
", Typhus fever - ", Enteric (or Ty-) phoid) fever -	11	10 13	7 14	11	9	7 8	10 20	12	3 13	6	4	8	10
,, Simple Contd fever Diarrhœa Simple Chalen	15	14 14	13 13	13	7 22 2	8 12	13 20	14 23	6 24	7 20	7 46	5 39	64
, , Simple Cholera -	171 145	158 133	183 123	154 108	170	154 95	148 81	1 188 93	151	131 82	2 147 82	3 165 59	148 68
, Pneumonia - , Heart Disease -	80 70	72 64	58 66	50 71	62 53	52 57	58 64	62 68	60 68	48 55	38	44 68	37 48
Mean Temperature of the Air Mean Temperature of the	50.0	50.7	49.7	47.6	50.1	56.7	53.9	49.9	59.5	56.2	56.6	60°· 5	61.7.
Water of the Thames -}	50.8	51.9	52.7	53.2	52.4	55.6	59.1	56.3		56.1	60.4	61.4	63.2
Humidity of the Air Rain-fall in inches	89	85 0·80	74 0·20	76 0·15	73 0·16	72 0·22	77 0·10	76 0·31	85 1·05	84 1·50	73 0·05	76 0·87	78· 1·51:
											1		

Note.—The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant. of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Lecds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 15th day of July 1871, in the following large Towns.

•		2012			the follows	15 Am 5	0 10111				
CITIES	Area	POPULATION estimated	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE	THE AIR.	THE AIR.	RAIN	FAL
BOROUGHS.  (Municipal Boundaries for all except LONDON.)	in Acres.	to the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 15th July 1871.	during the Week ending 15th July 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Ceme
Total of 20 Towns in the United Kingdom -	213,281	7,215,757	33.8	4458	3044	80.6	45.5	59.7	15.39	0.78	1.
LONDON	77,997	3,263,872	41.8	1904	1259	80°6	49.0	61.7	16.20	1.21	3
PORTSMOUTH	9,513	113,450	11.9	66	. 26	75.2	47.4	58.9	14.94	1.92	4
Norwich +	7,472	80,533	10.8	43	: 22	79.5	48'0	61°3	16.28	0.21	1
Bristol	4,688	183,298	39°1	111	: 68	'		1.00		-	-
WOLVERHAMPTON -	3,387	68,476	20.2	39	13	72.0	47.5	58.6	14.78	0.78	1
BIRMINGHAM	7.831	344,980	44.1	227	149	71.0	48*3	58*7	14.83	1.10	2.
LEICESTER	3,200	95,882	30.0	70	42	77.2	46.0	60.7	15.94	1.11	2
NOTTINGHAM	1,996	86,929	43.6	54	31	75.0	46°3	60.3	15.72	1.26	3
LIVERPOOL	5,108	494,649	96*8	316	257	72.2	50.6	59.4	15.22	0.91	2
MANCHESTER	4,486	356,099	79*4	237	184	73.0	47.0	58.9	14.94	0.58	1
SALFORD - + -	5,172	125,422	34°3	85	68	71.9	45.9	57.6	14.22	0.60	1.
BRADFORD	6,590	146,987	22°3	81	: 58	73.7	50.7	60.5	15.83	0.66	1.
LEEDS	21,572	260,657	12.1	184	97	72.0	50.0	59*2	15.11	0.83	2.
SHEFFIELD	22,830	241,507	10.6	170	109	73.0	48'0	59.5	15.28	0.36	0.
HULL	3,562	122,266	34.3	98	52	75.0	47.0	60.7	15'94	0.35	0.
SUNDERLAND	3,306	98,797	29.9	85	91				and .		_
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	92	61	69.0	54.0	59*8	15.44	0.33	0.
EDINBURGH	4,427	201,728	45.6	133	101	72.7	48.0	59.1	15.05	0.20	0.
GLASGOW	5,063	479,227	94.7	306	253				,		-
DUBLIN	9,745	322,321	33.1	157	103	74.9	45.5	59.9	15.20	0.31	0.
			- 1	1			-				

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by add 1-40th of the rate of increase which prevailed between 1861 and 1871; the numbers for Edinburgh and Glasgow have be furnished by the Registrar General of Scotland, while those for Dublin are still the estimated numbers recently used.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Weending Saturday the 15th day of July 1871.

	ANNUAL				Th	e DEA	rns reg	istered	in the	Week i	nclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	T- D-112
Total of 17 Towns -	22	2587	654	443	264	65	73	13	55	59	129	98	150	4
LONDON	20	1259	302	241	133	22	40	9	23	23	64	55	73	2
PORTSMOUTH	12	26	6	5	-	_	-	_		1		-	1	-
NORWICH	14	22	1	7	-	_	-	-		-	1		1	
BRISTOL	19	68	27	5	1	1	3	an .		-	7	-	2	
Wolverhampton -	10	13	5					_	Sam.		-	21	-	
BIRMINGHAM	23	149	33	23	-	. 8	1	1	8	2	5	11	14	1
LEICESTER	23	42	15	11		1	2	-	-	1	3	1	1	-
NOTTINGHAM	19	31	5	5	1		1	1		-	-	2	4	
LIVERPOOL	27	257	73	48	22	8	9	-	7	14	13	11	.11	
MANCHESTER	27	184	49	- 18	24	6	-	1	2	5	16	4	13	1
SALFORD	28	68	15	6	6	5	3	1	4:	1	5	1	2	
BRADFORD	21	58	19	8	-	-	1	640	- 3	en.	5.	4	11	
LEEDS	19.	97	27	23	2	1	1	gan	1	3	3	6	9	1 .
SHEFFIELD	24	109	28	18	2	3	10	-	4	5	2	1	4	1 1
HULL	22	52	14	10	1	4	_	***	1	<b>3</b>	1	2	4	
SUNDERLAND	48	91	17	11	53		2	-	~	-	2		-	1
NEWCASTLE-ON-TYNE -	25	61	18	4	20	6	-	-	2	1	2		-	
7	*i.be.	7.00	7.4	O.br						-				1
DUBLIN	37	103	14	27	1	- term	2	-	~	4		5	:4	1 2

TABLE 5.- DEATHS in LONDON Registered in the TWENTY-EIGHTH Week of the Year 1871.

TABLE OF D						,1500	100		THE THE PROPERTY OF	0012 01	the .	L Cai		77 20			
	Averages of the venty-eighth Week. the 10 years 1861-70.	s	In t	he W	Veek July	endi:	ng 871.			Veek	s		he W				
:	s of the		Deat	hs of	f Per	sons	of			Averages of the wenty-eighth Week the 10 years 1861-70.		Deat	hs of the	Per	sons	of	
CAUSES OF DEATH.	erage ty-eig 10 yea	ALL		der	40.	60.	80.	and	CAUSES OF DEATH.	erage ty-eig 10 yea	ALL	Un	der	40,	60,	80°	and
		AGES.		10.	under	40 and under	under	rs al		Twen in the	AGES.		0.	under	under	under	rs ar
		Mean Tem.	ۍ. د	-20.	and	and 1	and	0 Years upwards.			Mean Tem.	0-5.	5-20.	20 and t	and	and	y Years upwards.
Mean Temperature -	63.3	61.7	0	0	20	40	99	8	Mean Temperature -	63.3	61.7	0	70	20	40	09	80
ALL CAUSES	1326.8			127	202	182	197	44	9. Stricture of Intestines - 10. Fistula	.8 .3 6.9	2 - 4	-	-	- - 1	1	1	-
SPECIFIED CAUSES  I. ZYMOTIC DISEASES.	1313.6	1257	507	127	202	181	196	44	11. Stomach Disease, &c 12. Pancreas Disease, &c 13. Hepatitis -	3.8	5	1 -	1	1	2	1.	-
ORDER 1.	16.7	133	51	35	32	14	1		14. Jaundice	3°4 14°0 °3	13	-	-	2	7	3	1
2. Measles	35°3 55°4	22 40 9	20 22 2	14	1 4	-		-	ORDER 5.		2		-	_			
5. Quinsy 6. Croup	9·3 1·4 11·8	$\frac{1}{12}$	11	6	, <u> </u>	1	1	-	1. Nephritis	1.2 6.9	18	-	1 2	1 4	4	3	-
7. Whooping-cough 8. Typhus	41.4	23 7 10	22 1 2 1	2	1 1	3 2	ī	-	4. Diabetes	1·2 ·7 1·2	1 - 3	-	-	-	-	1 2	-
- Simple continued Fever -) 9. Erysipelas	5.2	6 8	1	3	1	2	4	1	7. Kidney Disease, &c ORDER 6.	7.3	8	1	-	2	3	2	_
10. Puerperal Fever (Metria) 11. Carbuncle 12. Influenza 13. Dysentery	2·1 1·4 ·1 3·1	2 1 - 2	1 1 1	1111	1 -	1 1 2	-		1. Ovarian Dropsy 2. Uterus Disease, &c	4.0	2 8	-	-	1 2	1 2	3	ī
14. Diarrhea	150.7	64	62		. 1	1 -	1		ORDER 7.  1. Synovitis (Arthritis) - 2. Joint Disease, &c	·2 3·2	7	- 2	- 2	-	2	ī	-
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	1.0 7.1	8	1	- 3	1	=	4	-	ORDER 8.							-	-
ORDER 2.	8.0	6	6	_		_	_		1. Phlegmon	1.8 1.6 1.2	2 2 1	-	1 -	-	1	=	1
2. Stricture of Urethra - 3. Hydrophobia	-7	1 -	1 1 1	-	-	-	1 -	-	IV. DEVELOPMENTAL DISEASES.								
ORDER 3. 1. Privation	*4 11*4	- 8	~	-	-	-	-	-	ORDER 1.  1. Premature Birth	18.7	19 2 1	19	-	-	-	-	-
3. Purpura and Scurvy - 4. Alco- \alpha Del. Tremens -	1.3	3 1	8 2	-	1	1	- 1	-	3. Spina Bifida 4. Other Malformations -	1.6 1.5 2.2	1 3 17	3	-	-	-	-	-
ORDER 4.	1.2	1			-		1		5. Teething ORDER 2.	12.2	17	17	-	-	-	_	-
2. Worms, &c II. CONSTITUTIONAL DIS.	4:0	-			-	_		-	1. Paramenia 2. Childbirth (see Puer-) peral Fever)	5.5	- 5	-	-	5	-	-	-
ORDER 1.	1.0	3	L	_	1	1	1	_	ORDER 3.	42.1	43	_	_		_	17	26
2. Dropsy	10·2 29·5 ·5	18 41		-	5 -	5 21 -	1 7 15	Ξ	ORDER 4.  1. Atrophy and Debility -	76.3	66	53	-	_	1	12	
5. Mortification ORDER 2.	3.2	1		-	-		ī	-	V. VIOLENT DEATHS, &c.								-
1. Serofula	10.7 28.0 154.8	9 19 148	19 6	21	73	38	10	-	ORDER 1. (Accident or Negligence.)								
4. Hydrocephalus III. LOCAL DISEASES.	27.5	23	21	1	1	-	-	_	1. Fractures and Contusions 2. Wounds	17:0	19 1 4	2 - 4	2	6	4	5	=
ORDER 1.  1. Cephalitis	17.9	16	9	1	2	2	2		3. Burns and Scalds 4. Poison 5. Drowning	2·8 ·5 7·7	8	1	5	2		-	-
2. Apoplexy 3. Paralysis 4. Insanity	29.7	36 29	7	2	3 6	7 9 1	14 12	3 2	6. Suffocation 7. Otherwise	4·9 2·5	11 2	10	ī	_	1	-	-
5. Chorea	1.3 .4 6.4	3 - 3	=	-	1	1	1 1 3	-	ORDER 3. (Homicide.)								1
7. Convulsions 8. Brain Disease, &c ORDER 2.	42°3 18°6	48 13	47	-	2	5	3	Ξ	1. Murder and Manslaughter ORDER 4.	2.7	1	1	-	-	-	-	_
1. Pericarditis 2. Aneurism 3. Heart Disease, &c	1°9 2°7 52°4	1 2 48	- 2	- 8	1 2 9	10	21	- 3	(SUICIDE.)	•6	-	_	-	_	_	_	-
ORDER 3.	5.0	5	4	1	-	_	21	-	1. Wounds {Gunshot - Cut, Stab - 2. Poison 3 Drowning	1.4 .9 1.4	1 5 1		-	2 -	3 1	-	-
2. Bronchitis	58.9 2.8 44.0	68 1 87	25	-	3	7 7 2	29	4	4. Hanging 5. Otherwise	1.1	î	-	-	1	-	=	-
5. Asthma 6. Lung Disease, &c	4.5 10.3	3 6	20	5 -	5 2	1	5 2 1	-	ORDER 5. (EXECUTION.)								
ORDER 4.  1. Gastritis	1.6 7.9 4.7	2	ī	-	-	-	-	-	1. Hanging		-	-	_	-	-	-	-
3. Peritonitis	2·2 3·4	6 2 6		3 -	3 - 4	1	1	-	Violent Deaths (not classed) Sudden Deaths (Cause un-)	*2	1	-	1	-	-	-	-
6. Hernia	2·7 3·3	3 3	2	-	-	1	1	1	ascertained) { Causes not specified or ill-}	9.0	2	_	-	-	1	1	-
	- 1								defined 5						1		

ABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

												duı	ring	the	Wee	k en	ding
		ing	ing			,	The	DEAT	HS TO	gistere	d in	the W	eek i	nclude	3		
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total BIRTHS during the Week.	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhæa.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	3,251,804	1904	1259	302	241	133	22	40	9	23	7	10	6	64	55	73	274
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	561,189 751,668 333,887 638,928 966,132	329 404 174 438 559	217 297 134 266 345	50 65 82 72 83	39 64 23 47 68	8 49 8 18 50	4 2 4 3 9	15 9 8 - 13	2 4 1 2 -	9 5 2 4: 3	8 1 2 1	2 1 2 2 3	- 2 - 2 2	11 14 8 15 16	8 10 4 17 16	10 19 5 19 20	40 68 37 60 69
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H	58702 38082 91583 28661 6862 5609 23378 26419 28278 21389 18700 18090 58043 38470 27640 10453 12855 10279 17555	44 17 52 20 4 23 17 13 25 10 4 2 34 18 18	13 16 29 3 17 9 11 12 15 5 2 20 11 23 2 9 4 7	6 -41 -74 213 1 -036 -111 -	142413 - 2888 11884 - 4-1	1 - 2 2 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 7 - 2 - 1 1 1 1	1	2 3 1 - 2 - 1				1 2 1 2 1 1 31 1 1 1 1 1 1 1 1 1 1 1 1 1	1112	12 - 1112	1 4 - 3 - 1 3 2 - - 2 1 16 - 5
NORTH DISTRICTS.  All Souls Marylebone HH	28574 1A419 26387 21795 33892 33110 32271 38192 22316 38562 18063 68198 97801 115943 9810 6A99 28076 50087 30305	17 4 21 7 15 22 19 13 8 14 15 8 40 55 71 9 3 19 20 24	13 4 18 7 19 13 24 13 13 18 10 16 25 37 37 37 6 6	224428888884214878851	2 2 7 1 1 3 2 5 2 -1 6 4 7 9 2 6 2 6 2 6 2 6 2 6 2 6 2 6 2 6 2 6 2		1	1 1 1 3 - 3	1 1	1 2	1 1		1	3 1 22 1 1 1 - 21	1111111112	2 - 1 - 1 1 2 1 1 4 1 - 1 3 -	4 -9 2  15 -6 5 -6 2 3 3  13 
St. George Bloomsbury	17843 19989 16497 11326 , 9831 3876 10711 20521 12528 9051 18912 16878 13293 16220 12156 18291 13790 10732 14484 13839 6094 4389 6094 4489 6694 6744 6894 6894 6894 6894 6894 6894 6894 68	3 9 9 4 4 6 6 6 14 8 1 9 5 5 12 11 13 3 12 9 3 2 - 2 3	4 8 6 3 8 2 8 4 9 3 10 5 8 6 4 4 8 11 2 7 4 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	212122-122333-31111111	1 2 1 2 1 1 1 1 - 1 2 2 - 1 1 1 1 - 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1			111111111111111111111111111111111111111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1

<sup>†</sup> Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRIGEA, VIOLENCE, &c., registered in each Sub-district Saturday, 15th July 1871.

Saturday, 15th July 1871.							_		_								
		during	during				The I	DEATE	ıs reg	istere	d in	the W	eek ir	aclude			
registrars' sub-districts.	rated Popu- lation. 1871.	Total Births du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch —	12429 16545 27832 26944 24153 19257	9 15 31 17 ,12 11	6 9 13 9 11 4	4 1 1 2 4	1 3 5 2 4 -	- 1 1 ÷÷ -	1	1,1111	111111	1	114111	1	111111	2 1 1 -	111111	1111111	- 2 5 - 8 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	16 22 16 15	17 19 11 8	7 5 2 1	1 5 2 -	1 5 1						1 -	1111	2 2 1	1111	1	9 -
Artillery Whitechapel Snitallields	6651 15844 15550 11434 7323 10381 9149	4 4 17 6 7 9	1 3 11 6 18 3 4	1 2 2 1 1 1 1	1 1 1 4 -	111111	1,11111	1111111	1111111	1	111111	111111	1		9 -	9	- 5 - 16 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	11 11 7	4 5 2	1 3 1	-	-	1 -	-		1 1 1	-	-	- - -	1 1 -			
Shadwell $W$ Rateliff $WH$ Limehouse $W$	11623 15930 30025	7 9 22	5 6 16	2 2 5	2 2	- 3	-	-	-	1.1.1	- 1	-		- 1	2 1 1	2 1 1	ī -
Mile End Old Town West Mile End Old Town East WwH	38126 55020	32 43	14 18	5 5	3	4	-	-	-	1 -	1 -	-		1 -	1	2	2
Bow WwHL†	67777 48500	48 37	31 12	5 4	7 2	3	1 -	: - -	2 -	-	~ -	-	1 -	ī	3 -	3 -	10 1
SOUTH DISTRICTS.  Christchurch Southwark W St. Saviour Southwark H Kent-road Borough-road U	14547 15667 20430 16694 18959 23673 48232 16786	11 7 10 8 10 20 20 9	7 5 12 10 3 9 19 5	1 2 4 5 2 2 2 2	1 2 - 3 6 1	1 - 3 - 1 2 1	2	1 - 2	1111111	1	11111111	1	1111111	121212			1 10
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	11 11 15 38 20	18 4 6 3 14 6	3 3 1 6 1	1	- 2 - 2 -	1 1 1 -			11,11,11	PERM	111111	111111	2 - 1 -	δ 1 - -	6	18
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 85831 41284 81213 85431 12534	11 17 9 18 26 7 16 8	12 5 9 18 11 7 24 4	6 3 1 3 1 4 1	1 - 3 5 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111111	1 1 1 -	1111111	1	11111111	1	11111111	1 1 1	11	111111111111111111111111111111111111111	9
Clapham HL	27348 53988 19797 9438 14479	13 32 11 6 9	6 23 12 - 3	7 1 - 1	2 4 4 - -	3 8 - -		- 1 1		11111	ī -	11111	- 1 -	11111	- - 1	2 - 1	3 -
Dulwich	4041 31251 42159 80851	14 23 22	1 9 12 14	- 2 4	1 4 2 3	- - 5	ī -	1 1		1111	1111	1111	1	1111	- - 3 1	3 1	8 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	30 5 13 13	9 1 7 8	2 - 2 -	2 - 2 5	1	2 -		1111	1111	11,11	1111	1111	2 - 1	1 - 1	1	- 4
Eltham	4528 16430 11508 19016	2 4 13 14	1 4 5 1	- 2 - 1	1 1 4 -	1		1111	1111	1111		11:11	1111	1111		1111.	1
Charlton H Woolwich Dlockyard Woolwich Arsenal H Plumstead, West	9503 17229 18319 13028 15290	2 8 10 7 6	2 6 3 4 3	1 2 - 2	1 2 1	11811	1		11111	11111	11111	1111	-	11111		ī -	

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand - , , Tottenham-court sub-district.

London City - , , , Islington East.

Do. do. - , , , Hackney sub-district.

Stepney - , , Bow sub-district.

Stepney - , , Bow sub-district.

sub-district. | Stepney - ., ;; † Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 15th JULY, 1871. [Under the Superintendence of the Astronomer Royal.]

MONTH AND DAY

1871.

JULY. SUNDAY . . MONDAY. .

									2/2000	0,0	rogree		000	, , , , , , , , , , , , , , , , , , , ,						
-		-		~ 10	uozo	:		:	: : :	:		56		hose at dry dry	and and sults	well h by rage	3rva-	d as	bout per-	eased was
2	KAIN.	Collected in a	Gauge	Jus .		Inches 0.00	0.12	1.28	0.00	0.08	Sum 1.51	25		tre taker eter, the eter,	the dry The res	P.M., as well stermined by The average	ical obse Decembe	nderstoo If-registe	epth of a er the su	the wee
			Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	119	339	376 320 299	280	Sum 2052	24		I to be 159 feet above the mean deced to be coincident with those deced to be coincident with those address of the baronneter, the dry stimes, are converted into mean farmes Glassher, F.R.S., from fryo	values of edition,	; and 9h, ers, as de to each.	ing 1863,	te to be u	at the d	n the 111 on the 1
			Ī		Mean of 24 Obs.	lbs. 0.3	0.0	0.4	0.3	0.5	:	65		be 15g to be obser ss of the es, are s Glais	daily daily daily	h. P.W. nomet	the the rs end	ons an	regist v pern	e begi A.M. o 1. A.M.
		nemom.		on squa	Least. 2	lbs. 0.0	0.0	0.0	0.0	0.0	:	22		ad to ridered The eading se tim	ans., I mean es, Fo	on; 30 there	from 50 year	servati	Polic ts are	at th ay 9h. by 9l
11	WIND.	from A		Pressure on square foot	Great-	lbs.	1.5	2.5	2.3	4.2	1:	123		nsider re cons aeter. f the r at the ced by	hil. Tr those al Tabl	M.; no nimum ions be	laisher n the	cal ob	rumen the si	n Polic 9.78 in. 43 iu. k 9.71 in
		As deduced from Anemometers	Osler's,		P.M.	SW.	SSW.ESE.	NNW. &	wsw. & sw. SSW.	SW.	,&WSW	20	NOTES.	ometer is considered to be 159 feet above the mean barometer are considered to be coincident with those indard barometer. The observations are taken at The means of the readings of the barometer, the dry ar, observed at these times, are converted into mean ections deduced by James Glaisher, F.R.S., from five	r 31.—See P duced from ygrometric r the num	ad at 9h. Ann and min	d by Mr. Greenwich, i	meteorologi nt to midni	f the "Scor f these inst on board	Metropolita used from 26 ased to 29.1 reased to 2
				General Direction.	A.M.	SW.	WSW.	NE. &		SSW. & WSW.	sw, ssw, &wsw	19		The height of the cistern of the barometer is considered to be 139 feet above the mean revel of the theorem of the barometer are considered to be coincident with those of the Royal Society's flut giass standard barometer. The observations are taken at the money is noon; 3h.P.M.; and 9h.P.M. The means of the readings of the barometer, the dry thermometer, and then wet thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Glassher, F.R.S., from free	years' observations ending 1845, December 31.—See Phil. Trans., part 1, 1848. The mean daily dew point and degree of humidity are deduced from those mean daily values of the dry and wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. The results for mean daily tennerature of the air or the numbers evilitied in column? include the	observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M., as well as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average	temperature of the air is that determined by Mr. Glaisher from the thermometrical observa- tions taken at the Royal Observatory, Greenwich, in the 60 years ending 1863, December 31. If I wood to the thing of the transfer of the state of th	than the average. The results of all the meteorological observations are proposed than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight applying to the waste of the waster	m the side of readings of inspector	Henderson, R.B., C.B., Commissioner of Metropolitan Polician the beginning of the week to Systim. by 9h. r.m. on the 9th; decreased from 29°78in. at the beginning of the week to 29°78in. by 9h. r.m. on the 9th; decreased to 29°48in. by 9h. A.m. on the 12th; decreased to 29°48in. by 9h. A.m. on the 13th; increased to 29°71in. by 9h. A.m. on the 13th; and was 29°90 in. by the end of the week.
-	Degree of Hu-	midity,	Satura-	being repre-	sented by 100.	72	89	91	79 90 84	1	78	18		cistern (e readin y's flint M.; and e wet the pplication	of hum ers by (	lry there	ir is tha	ne result lay, or fi	nded fronce. The	s. Comme baron on the M. on the
	9		perature of the day and	mean tem-	the same day on an average of 50 years.*	+ 0.5	8.0 -	9.4 -		0.9 +	8.0 -	17		The height of the cistern of the bar worl of the sea. The readings of the for the Royal Society's fint glass st the Royal Society's fint glass st the A.M.; noon; 3h.P.M.; and 9h.P.M. the remonder, and the wet thermonet daily values by the application of cor	rvations en and degree thermomet	ns of the cults deduce	re of the a	verage. The third of the civil of the civil of the resture of the civil of the civi	ters, suspen w the surface of the	o, R.E., C.I ding of the y 9h. P.M. by 9h. A.I y the end o
	DIFFERENCE			1	Least.	0.01	9.0	0.0	1.5	0.5	1.3	16		ne heig l of th she Rc L.M.; n momet value	s' obse	rvation he resiself-reg	peratu s take	the a type a lying to	mome of belo- ndence	ndersol he rea 14 in. b 19 76 in
8	DIE	Between Dew Point Temperature	Air Temperature		Great- est,	17.71	22.1	4.9	16.0	9.61	14.5	15		***************************************			tem tion			
		Betwee	Air T	Mean		0.0	9.01	5.6	6.6 3.1 4.9	12.6	7.1	14		a light	vereast. without	scarcely	ally.	fternoon	Rain fell	A.M. and
=		Water of	nes at	stering neters.		8.09	8.19	0.29	61.5	61.5	61.3	13			became overcast, continued without th. P.M.	nd with	occasions	l in the a		l in the even lh.
		In the W	the Than	self-registering Thermometers.		64.4	64.8	65.4	65.4 64.6 65.1	65.4	65.0	12	PHERE	e princip s passed	he sky b f., and co	neavily, a	A little rain fell occasionally.	Thin rain fell in the afternoon	then var out 9h. 30	rning and n fell bet
	rers.	Lowest on the	Grass, as	a self- register-	Minimum Thermo- meter.	49.0	40.5	9.09	54.0 54.0	2.09	51.3	11	ATMOSPHERE	The clouds were principally nes dense masses passed over.	when the theory of the theory of the theory of the	fell very l			evening, heard ab	early mo
	READINGS OF THERMOMETERS	Highest in the sun, as		Thermo .		138.5	143.9	71.4	108.7		121.1	10	SKY AND A	fine day. The clouds were principally though at times dense masses passed over	Variable till the afternoon, when the sky became Rain commenced falling about 6b. P.M., and continue intermission till midnight, falling heavily after 9b. F.M.	Overenst throughout. Rain fell very heavily, and with scarcely any intermission, from the previous midnight till 6b. P.M.	y, though generally fine.	ky was covered throughout.	vereast till the evening, then variable. Distant thunder heard about 9h. 30m. A.M.	y cloudless during the early morning and in the evening; eat other times. Showers of rain fell between 1h. A.M. and
	GS OF	Dew	FOILE.	Mean	daily value.	53.0	50.4	9.19	52.0 58.9 60.6		54.6	6	SK	fine day. though at	till the	hrough sion, fr	ough ge	as cove	overca. Dista	udless ther tin
	EADIN			Mean	daily value.	62.2	0.19	54.2		68.5	61.7	S		very fi	comm comm mission	sreast t	udy, th		Generally overcast till occasionally. Distant thu	Nearly cloudless durin rariable at other times. 4h. A.M.
	T			Range	in day.	19.2	26.0	5.5	20.3	9.61	17.2	-		A vel	Va. Rain inter	Ove any ii	Cloud	The sl	Ger	
		Drv	-	Low	est.	54.2	49.0	52.6	49.8 54.3	0.19	54.7	9		ion at	ж.	morning	night.	i		morning; le tension
				High	est.	73.4	0.92	58.1	70.1		71.9	140	HTY.	ak tens	ıt 9h. P.	the m	sitive at	r tensio		in mo
18 A D.O. 11	METER.	Mean	(eor-	rected and re-	32 degr. Fahren-heit).	in. 29.826	29.734	29.541	29.747	29.885	29.759	4	ELECTRICITY	with we	Weak positive about 9h. P.M.	egative in	Occasional weak positive at night.	Positive, with weak tension	itive.	egative vith var
	MOON.	and the same of th	Phases	Jo	Moon.	In	Last Qr.	:	ee.	::	:	00	BL	Positive, with weak tension night.	Weak pos	A little negative in the and at night.	Oceasiona	Positive,	Weak positive.	Weak negative in n positive, with variable afterwards.
				Þ		6	10	11	132	15	1 .	ns	-	E I		3.1				a p

. 10

MONDAY

SUNDAY

THURSDAY . 13

FRIDAX

VEDNESDAY

TUESDAY

No. of Column

DATE.

MEANS.

WEDNESDAY. FRIDAY . . SATURDAY.

TUESDAY .

# WEEKLY RETURN

## BIRTHS AND DEATHS IN LONDON

AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Anthocity of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 29. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JULY 22. [Price 1d.

General Register Office, Somerset House, 24th July 1871.

During the week ending Saturday the 22d July, 4794 births and 3140 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week was at the rate of 23

deaths annually in every 1000 persons living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 20 per 1000; Portsmouth 18, Norwich 18, Bristol 19, Wolverhampton 11, Birmingham 18, Leicester 20, Nottingham 22, Liverpool 30, Manchester 26, Salford 27, Bradford 16, Leeds 21, Sheffield 25, Hull 15, Sunderland 47, and Newcastle-upon-Tyne 33. The fatal cases of small-pox in these seventeen towns, which in the three previous weeks had declined from 371 to 264, were 268 last week; the numbers in the several towns showed a slight increase in London, Liverpool, and Newcastle-upon-Tyne, while they had somewhat declined in Manchester and Salford, and in Sunderland.

In Edinburgh the annual rate of mortality from all causes last week was 24 per

1000 persons living, in Glasgow 35 per 1000, and in Dublin 16.

In Paris 859 deaths were returned in the week ending 21st instant, and the annual death-rate was equal to 25 per 1000 of the estimated population. In Brussels 88 deaths occurred in the week ending 15th instant, and the annual death-rate was 25 per 1000. In Berlin during the week ending 20th instant 791

deaths were recorded, showing an annual rate of 52 per 1000.

Asiatic cholera, as it was a painful duty to announce early last June, is entering Western Europe through Russia, where, Dr. Zuelzer says, it is fast advancing on the German frontiers. In the second week of this month it broke out in Wilkowyszki (a town of Poland, on the road to Konigsberg, west of the Niemen), where 34 deaths occurred within a few days. The epidemic has prevailed in Wilna for four weeks, and from 10 to 15 deaths are reported daily. At its present rate of progress it may reach Germany in two or three weeks.

It was shown by Dr. Snow that the disease is propagated by the choleraic discharges—it may be dried—but generally, as was proved from the London Returns, published by this office, through the contaminated river waters. The water supply of London and of many other cities, has in consequence been much improved. Unfortunately time has been wasted, and nothing further has been done; but the Legislature will yet have time to lay the foundations for a pure municipal water supply. The new Public Health Department, and the Local and Municipal bodies, by timely administrative measures, may mitigate the severity of its attacks, if it be now too late to prevent the invasion of the Asiatic enemy.

Returns have been received from Holland, which show that the epidemic of small-pox has considerably declined in its large towns, although the disease continued fatally prevalent throughout June in The Hague, Leyden, Rotterdam, Delft, and in several of the smaller towns. In The Hague, the deaths from small-pox in the first six months of this year were 392, 350, 201, 138, 72, and 62 respectively, in the two weeks coding 2th instant they fourther declined to 18

tively; in the two weeks ending 8th instant they further declined to 18.

In the City of New York 604 deaths were registered in the week ending 1st instant, of which 208 were fatal cases of diarrhea; the equivalent annual rate

of mortality was 33 per 1000.

In Bombay the deaths registered during the week ending 27th June were 286, and the mortality was at the annual rate of 18 per 1000. In Madras 272 deaths were registered in the week ending 9th June, showing an annual death-rate equal to 33 per 1000 of the population.

In LONDON 2089 BIRTHS and 1281 DEATHS were registered last week. After making due allowance for increase of population, the births were 31, and the

deaths no less than 328, below the average numbers in the corresponding week of the last ten years; the deaths were so far below the average, owing to the unusually

small fatality from diarrhea for the time of year.

Zymotic diseases caused 376 deaths last week, including 135 from small-pox, 17 from measles, 24 from scarlet fever, 1 from diphtheria, 28 from whooping-cough, 24 from different forms of fever (of which 5 were certified as typhus, 9 as enteric or typhoid, and 10 as simple continued fever), and 110 from diarrhea; thus to the seven principal diseases of this class 339 deaths were referred last week, against 290 and 314 in the two preceding weeks. The fatal cases of diarrhea, although showing a further increase of 46 upon the two previous weeks, were 123 below the average number in the corresponding week of the last ten years, corrected for increase of population. Nine deaths were certified from choleraic diarrhea and simple cholera; all but one were of infants, the other was of a porter, aged 26 years, who died in Bear-yard, St. Clement Danes, from "choleraic diarrhea, 22 hours."

The deaths from small-pox in London, which in the three previous weeks had declined from 235 to 133, were 135 last week. In five permanent and temporary hospitals for this disease 51 deaths were recorded last week, of which 29, 7, and 10 respectively occurred in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths, it appears that 21 belonged to the West group of Districts, 38 to the North, 15 to the Central, 25 to the East, and 36 to the South; these numbers showed a slight increase in the West, East, and Central London, while there was a considerable decline in the South group of Districts. Five deaths from small-pox were returned last week in Mile-end Old Town Eastern, 6 in Battersea, and 3 each in St. Paul Hammersmith, Somers Town, Kentish Town, and South Hackney sub-districts.

To different forms of violence 48 deaths were referred last week; of these 39 were the result of accident or negligence, including 18 by fractures and contusions, 5 from burns and scalds, 12 from drowning, and 3 from suffocation. Two deaths were cases of murder or manslaughter, and 5 were suicides. Five of the deaths from fractures and contusions were caused by horses or vehicles in the

streets, 4 being of adults, and one of an infant, aged two years.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.78 in.; the highest reading was 30.00 in. at noon on Sunday, and the lowest 29.48 in. at 3 P.M. on Saturday. The mean temperature of the air was 65°.5, or 3°.8 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. Sunday, 16th instant, was the hottest day we have had this year, and the mean temperature was 69°1, or 6°7 above the average; the mean declined steadily on each of the subsequent days of the week, and on Saturday it was only 60° 9, and showed a defect of 0° 6. The highest day temperature in the shade was 82° · 6 on Monday, the lowest night temperature 54° · 0 on Wednesday; the entire range of temperature in the week was, therefore, 28°.6. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 140° 5 on Friday. The difference between the mean dew-point temperature and air temperature averaged 8°.4. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 65° 6 last week. mean degree of humidity of the air was 75, complete saturation being represented by 100. The general direction of the wind was S.W., W.S.W., S.S.W., and the horizontal movement of the air in the week averaged 10 miles per hour. Rain fell on Saturday only to the amount of 0.05 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 57°·1 in Newcastle, to 64°·6 in Portsmouth; the lowest recorded night temperature was 46°·7 in Salford, and the highest day temperature in the shade 81°·4 in Portsmouth. Rain was measured last week in each of these towns; the amounts varied from ·07 of an inch in Norwich, to 1 ·06 inches in

Wolverhampton.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 222,817 cubic metres, and at Barking 268,530 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered Last Week, and in the Twenty-ninth Week of Ten previous Years.

Total Births  Males Females .	1861 1819 905 914	1862 1812 921 891	1863 1810 930 1880	1864 1870 976 894	1865 1953 1033 920	1866 	1867 1910 976 934	1868 2014 1017 997	1869 2119 1076 1043	1870 2137 1070 1067	Weekly Average in 10 Years. 1946.7 991.2 955.5	1871 2110 1075 1035
Total Deaths  Males Females .	1171	1111	1364	1399	1467	1798	1230	1642	1600	1754	1453·6	1281
	592	585	725	701	739	908	637	876	824	900	748·7	697
	579	526	639	698	728	890	593	766	776	854	704·9	584

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

			_							_		_	
	Apr. 29.	May 6.	May 13.	May 20.	May 27.	June 3.	June 10.	June 17.	June 24.	July 1.	July 8.	July 15.	July 22.
TOTAL Deaths	1469	1522	1341	1486	1401	1393	1437	1349	1296	1328	1200	1259	1281
Deaths under 5 years of age - Deaths 5-20	582 158	568 183	519 142	594 152	485 153	513 137	548 150	477 135	495 131	541 135	466 122	507 127	578 97
Deaths 20—40 Deaths 40—60 Deaths 60—80	248 226 212	276 253 193	232 189 213	260 214 207	270 227 217	242 236 223	271 218 219	257 229 204	248 196 189	238 215 165	199 190 185	202 182 197	200 212 164
Deaths at 80 years & upwards	41	49	46	45	49	42	31	47	37	34	38	44	30
Deaths from Small-pox , , Measles , , Scarlet Fever -	261 12 30	288 17 29	232 16 35	267 11 28	<sup>1</sup> 257 23 28	229 16 25	245 23 34	240 21 17	232 27 24	235 15 16	164 12 24	133 22 40	135 17 24
", Diphtheria - ", Whooping-cough	7 45 10	36 7	2 25 11	8 43 9	2 48 7	10 28 10	6 32 4	9 29 3	3 33 6	8 36 4	4 30 8	9 23 7	1 28 5
,, Enteric (or Ty-) phoid) fever -	13	14	9	18	8	20	12	13	9	11	4	10	9
, SimpleContafever , Diarrhœa - , Simple Cholera -	14	13 13	13 1	7 22 2	8 12 —	13 20 1	14 23 1	6 24 —	7 20 2	7 46 2	5 39 3	64 4	10 110 9
,, ,, Phthisis ,, Bronchitis ,, Pneumonia - ,, Heart Disease -	158 133 72 64	183 123 58 66	154 108 50 71	170 100 62 53	154 95 52 57	148 81 58 64	188 93 62 68	151 90 60 68	131 82 48 55	147 82 38 52	165 59 44 68	148 68 37 48	144 <sup>3</sup> 59 40 56
Mean Temperature of the Air	50.7	49.7	47.6	50°·1	56.7	53.9	49.9	59.5	56.2	0	60.5	61.7	65.5
Mean Temperature of the Water of the Thames -	51-9	52.7	53.2	52.4	55.6	59.1	56.3	57.2	56.1	60.4	61.4	63.2	65.6
Humidity of the Air	85	74	76	73	72	77	76	- 85	84	73	76	78	75
Rain-fall in inches	0.80	0.20	0.12	0.16	0.22	0.10	0.31	1.05	1.50	0.05	0.87	1.21	0.02

Note.—The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Harfnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 22d day of July 1871, in the following large Towns.

		zza day	or our	1071, 211	13110 11						
CITIES	Area	Population estimated	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE	THE AIR.	TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALI
BOROUGHS.  (Municipal Boundaries for all except LONDON.)	in Acres.	to the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 22d July 1871.	during the Week ending 22d July 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In . Inches.	Cer met
Total of 20 Towns in the United Kingdom -	213,281	7,215,757	33.8	4794	3140	82.6	46.0	61.0	16.11	0.46	1:1
LONDON	77,997	3,263,872	41.8	2110	1281	82.6	54.0	65.5	18.61	0.02	0.:
PORTSMOUTH	9,513	113,450	11.9	81	40	81.4	51.2	64.6	18'11	0.08	0.5
Norwich	7,472	80,533	10.8	48	27	81.2	49.0	63.1	17.28	0.07	0.:
BRISTOL	4,688	183,298	39.1	120	66	-			-		-
WOLVERHAMPTON -	3,387	68,476	20.2	52	15	77.4	49.2	60.4	15.78	1.06	2.6
BIRMINGHAM	7,831	344,980	44.1	231	117	75.3	52.0	61.6	16.44	0280	2.0
LEICESTER	3,200	95,882	30.0	78	37	80.2	49.0	62.7	17.06	0.69	1.7
NOTTINGHAM	1,996	86,929	43.6	51	37	78.0	48.7	62.0	16.67	0.33	0.8
LIVERPOOL .	5,108	494,649	96*8	357	284	71.3	53.0	59.1	15.05	.0*43	1.0
MANCHESTER	4,486	356,099	. 79*4	235	178	78.8	49.0	61.0	16.11	0.41	1.0
SALFORD	5:172	125,422	34.3	80	66	76.2	46.7	58.9	14.94	0*40	1.0
BRADFORD 4 =	6,590	146,987	22.3	41	46	74.7	53 2	60*6	15.89	0.17	0.4
LEEDS	21,572	260,657	12.1	173	104	77.0	52.0	61'3	16.28	0.30	0.7
SHEFFIELD	22,830	241,507	10.6	178	. 117	79.0	51.0	61.8	16.26	0.08	0.5
HULL	3,562	122,266	34.3	85	36	80.0	49.0	61.0	16.11	0*28	0.7
SUNDERLAND	3,306	98,797	29*9	75	89						
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	89	81	69*0	51.0	57.1	13*94	0.40	1.0
EDINBURGH	4.427	201,728	45.6	139	94	72.7	46.0	56.7	14.83	0.70	110
GLASGOW	5:063	479,227	94.7	442	326	67.7	47.8	58*2	14.55	1.04	2.6
DUBLIN	9,745	322,321	33.1	129	99	76.1	46.5	61.0	16.11	1.03	2.6
	-,,	,	-								

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by add 1-40th of the rate of increase which prevailed between 1861 and 1871; the numbers for Edinburgh and Glasgow have befurnished by the Registrar General of Scotland, while those for Dublin are still the estimated numbers recently used.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Weending Saturday the 22d day of July 1871.

	ANNUAL RATE				Th	é Dea	rns reg	istered	in the	Week i	nclude	,		
BOROUGHS, &c.  (Municipal Boundaries for all except London.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Ferer.	Diarrhœa.	Violence.	İnquest Cases.	T. Outlie
Total of 17 Towns -	22	2621	775	393	268	55	66	9	58	65	195	106	166	3
LONDON	20	1281	379	194	135	17	24	i	28	24	110	48	68	23
PORTSMOUTH	18	40	10	11	2	1	1	_	3	4	-	2	2	
Norwich	18	27	6	9	-	-	_	1	-	-	2	1	3	
BRISTOL	19	66	17	16	-	-	5	1	3	-	2	2	- 5	]
WOLVERHAMPTON -	11	15	1	4	1		-	1	4	_	_		_	
BIRMINGHAM	18	117	30	17	2.	7	1	1	2	2	2	8 .	15	
LEICESTER	20	37	12	3	1	_	6	i.a	1	1	7	_	1	
NOTTINGHAM	22	37	8	10	-	-	-		1	-	3	1	2	
LIVERPOOL *	30	284	100	40	27	12	7	2	11	16	21	18	25	1
MANCHESTER	26 .	178	51	25	12	3	5	_	1	4	17	7	16	3
SALFORD	27	66	21	2	8	6	1	_	2	-	9	- 3	. 4	
BRADFORD	16	46	18	8	-	-	1		1	3	2	-	-	
LEEDS	21	104	29	21	_	1		-		3	7	3	6	
SHEFFIELD	-25	117	31	11	1	6	12		3	4	8	7	11	
HULL	15	36	13	3	=	2	-	_	1	2	1	4	4	
SUNDERLAND	. 47	89	26	9	52	-	3	1	_	1	2	1	1	1
NEWCASTLE-ON-TYNE -	33	81	28	10	27	-	~	1	1	.1	2	1	3	1
DUBLIN	16	99	11	22	-	-	5	-	-	2	2	-	,.1	2

TABLE 5 .- DEATHS in LONDON Registered in the TWENTY-NINTH Week of the Year 1871.

LABILE G. D	LALING	111 11	ONL	UN	110,	3130	CIC		the I WENTY-MINTH WE	CK OI	iic i	cai	10,	1.			
	1e 7 eek 31-70.	2			July					the Week 1861-70.	S	In t	he W				
- 1	Averages of the Twenty-ninth Week n the 10 years 1861-70		Deat	ths o	f Per Age	sons	of			nth Wars 186	,	Dea	ths o	f Per Age	sons s	of	
causes of death.	rerage nty-ni 10 ye	ALL AGES.		der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages of the loyears 18	ALL AGES.	Une 20		r 40.	r 60.	r 80.	and
	Twe	Mean			under	under	under	Years pwards.		Twe in the	Mean			under	l under	pur	y Years upwards.
Mean Temperature -	63.8	Tem. 65.5	0-5.	5-20.	20 and	40 and	60 and	80 Ye	Mean Temperature -	63.8	1em.	0-5.	5-20.	20 and	40 and	60 and 1	Ndn nbw
ALL CAUSES	1453*6	1281	578	97	200	212	164	30	9. Stricture of Intestines -	1.0	2		_	_	1	1	-
SPECIFIED CAUSES	1441.5	1275	574	97	198	212	164	30	10. Fistula	6.2	ii	4	-	1	3	3	-
. ZYMOTIC DISEASES. ORDER 1.									13. Hepatitis	3'8 4'2 16'1	4 2 21	2		1 - 4	8 - 9	7	-
Small-pox	17°0 37°0 57°6	135 17 24	53 17 13	32 10	41	6	3 -		16. Spleen Disease, &c ORDER 5.	-3	-			_		_	-
Diphtheria Quinsy	9.6 1.2 10.4	1 2 7	1 1 7	1			1 1	I	1. Nephritis	1°1 3 8°3	1 - 6	1		1	4	- 1	-
Whooping-cough	41.2	28 5 9	28	-	1	2	2	-	4. Diabetes	1.6 1.0	6 3 1	7 1 1	-	1	1	1	
- Simple continued Fever -) - Erysipelas Puerperal Fever (Metria)	6.5	10	6	1	1 2	1 1 1 02	2	-	7. Kidney Disease, &c ORDER 6.	7'3	13	-	-	2	. ő	6	_
Carbuncle Influenza Dysentery	2·7 ·7 ·2 3·3	5 - 2	- 2	-,		2 1 1	-	1111	1. Ovarian Dropsy 2. Uterus Disease, &c	1·2 3·4	5	-	-	1	2	2	-
Diarrhea	211.5	110	105 8	ra i ra	=	1	4		ORDER 7.  1. Synovitis (Arthritis) - 2. Joint Disease, &c	*2 4.3	ī		-	-	-1	-	-
Remittent Fever Rheumatism	7.7	- 8	-	1	- 4	2	1		ORDER 8.  1. Phlegmon	1.4							
ORDER 2.	7.5	3	2			1	-	-	2. Ulcer 3. Skin Disease, &c	1.0	1		-	-	=	-	1 -
Stricture of Urethra Hydrophobia	1.2	2	-		1 -	- 1	1	-	IV. DEVELOPMENTAL DISEASES.								
ORDER 3.	*5	-			-			-	ORDER 1. 1. Premature Birth	20:3	24	24	-	1 1	-	~	-
2. Want of Breast-milk - 3. Purpura and Scurvy - 4. Alco- a Del. Tremens -	12·1 -7 -1·4	10 1 3 3	10	1111	- 1 1	- 2	1.1		2. Cyanosis 3. Spina Bifida 4. Other Malformations -	2·1 1·1 1·8	1	1	1 2 1	-	-		-
ORDER 4.	5.1	8	6			2		_	5. Teething ORDER 2.	16.1	9	9	_		_	-	
CONSTITUTIONAL DIS.	91	-	-	=		-		_	1. Paramenia 2. Childbirth (see Puerperal) Fever)	3.8	9	Ē		8	1	-	_
ORDER 1.	*8	2	_	_	_	1	1	_	ORDER 3. 1. Old Age	41.1	25	L	_	-	_	13	12
2. Dropsy	11:7 27:9	10 83	3 -	2	6	3 16	1 2 9	1	ORDER 4. 1. Atrophy and Debility -	81·6	56	48	1	-	1	6	
ORDER 2.	3.3	4			-	-	4		V. VIOLENT DEATHS, &c.								
2. Tabes Mesenterica	9°7 28°9 150°0	10 31 144	30 8	17	3 1 66	1 49	- 4	4 -	ORDER 1. (ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	18.0	18	3	1	5	4	3	2
III. LOCAL DISEASES.	35'1	25	22	2		1	-		2. Wounds 3. Burns and Scalds	3·4 1·0	- 5	1		2	2	-	
ORDER 1.  1. Cephalitis  2. Apoplexy	14°4 27°7	11 42	8 8	2 3	1 3	11	14	- 6	4. Poison	10.0 6.2 1.9	12 3 1	1 3	5	3	2 - 1	1	-
3. Paralysis	27.5	22	-	3 1 1 -	3 2 1	7	1 8	6 4 -	Order 3.	13				_		_	
3. Epilepsy	6.7 53.2 18.4	6 56 21	55	1	1 2	3 - 2	1 10	1 -	(Homicide.)  1. Murder and Manslaughter	1.8	2		-	1	1	-	-
ORDER 2.	1.8	1 2	- J	-	_	_	.1		ORDER 4. (SUICIDE.)								
2. Aneurism	2°3 52°3	56	-	4	11	26	15		1. Wounds {Gunshot - Cut, Stab	1:1	1 2 1	17.	- 1	-	1 2 -	=	-
1. Laryngitis	4°6 54°8 2°2	4 59 2	3 22 1	1	3	,11	20 1	2 -	8. Drowning	1.3	1	H		-	1	1 4 1	1-1 1-1
4. Pneumonia	45°3 4°3 9°3	40 4 2	28	1	3 -	6	3		ORDER 5. (Execution.)								-
ORDER 4.	2*1		Ī	-		_	-		I. Hanging				-	_		_	-
2. Enteritis	7°4 5°5 2°1	13 10 6	7	1 -	5 2	3 2	3 1 1	- 1	Violent Deaths (not classed)	•2	2	1	_	_	_	1	-
5. Ulceration of Intestines - 6. Hernia - 7. Ilcus -	2.2 3.0 3.1	1 2 3	ī		1 -	1	1 2	=	Sudden Deaths (Cause un-) ascertained) Causes not specified or ill-	3·4 8·7	6	4	-	2	-	-	-
8. Intussusception	.9	-	~		-	-	-	-	denned				ł			o i =	
Truere a person is	lound	nrowne	u t	ne c	orone	ers,	118 11	1 80II	e other cases, do not always succ	seed in dis	scovern	B W	TE THE	25 611	o cas	C 13 2	

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

,													du	ing	the '	Weel	k end	ling
-			during	during				The :	DEATI	is reg	istere	d in t	he We	ek in	clude			
Control of the contro	REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti-
. S	LONDON	3,251,804	2110	1281	379	194	135	17	24	1	28	5	9	10	110	48	68	234
There is not be the second	WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	561,189 751,668 333,887 638,928 966,132	327 469 206 454 654	244 298 137 253 349	75 77 40 88 99	41 58 14 34 47	12 59 7 21 36	8 1 2 3 3	7 8 4 1 4	1	9 4 4 2 9	1 2 - 1 1 1	1 1 4 3	8 - - 1 6	21 25 10 80 24	11 7 6 9 15	10 14 11 15 18	37 81 28 41 47
Company of the contract of the	WEST DISTRICTS.   St. Mary Paddington   WH	58702 38082 91583 28651 6662 36030 23378 24419 23278 21389 18700 13020 58043 38470 27640 10453 12855 10279 17555	37 10 58 13 26 13 11 24 13 9 13 22 24 17 6 7 4 18	25 17 32 10 2 14 6 13 18 9 4 8 23 17 11 4 7	12 10 4 -53 553 1 -44 4 12 37	474411 - 232 1223 - 221 -	1211 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 - 1 1 - 1	1 1 3	111111111111111111111111111111111111111	1 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	111111111111111111111111111111111111111	5142-111-1-12-1112	2 - 11 3 - 1 11 3	22 - 3 - 1	342 - 1 - 38 - 77 - 5 - 2
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<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

## Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 245

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district aturday, 22d July 1871.

saturday, 22d July 1871.	1																
		during	during				The D	EATH	regis	tered	in the	Wee	k incl	ude			
REGISTRARS'	Enumerated Population, 1871.	Total BIRTHS duthe Week.	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
East Districts.																	
Holywell Shoreditch  St. Leonard Shoreditch  HL†	12429 16545 27832 26944 24153 19257	5 12 13 20 14 13	5 7 12 9 13 6	3 2 5 2 6 3	1 1 3 2 -	2 -	1	1	111111	111111	111111	- 111	11111	1 2 3 1	111111	1	
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Artillery Whitechapel	6651 15844 15550 11484 7323 10331 9149	1 11 14 6 4 2 2	2 2 5 10 11 3 3	1 2 4 4 1 -	4	1	1111111	111111	111111	111111			111111	1 2	1 2 -	1 2 -	10
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	17 24 12	7 10 10	5 8 4	ī	- 2	1	7.1.	- -	=	-	- 1	-	1	111		- 6
Shadwell $W$ Rateliff $WH$ Limehouse $W$	11628 1593) 30025	9 5 20	6 8 8	3 2 -	1	-	ī	-	=	-	-	-	=	2 2 -	- 2	- 2	1 1 -
Mile End Old Town West Mile End Old Town East WwH -	38126 55020	25 44	15 30	<i>5</i>	2 4	1 5	-	-	-	1 -	ī		1 -	2 4.	2	1 4	-4
Bow WwHLt - '	67777 48500	53 30	15 19	5 5	3 5	2 2	=	-	-	-	-	-	=	2 3	- 2	4	5 6
South Districts.  Christchurch Southwark W	14547	7	11	4	3	1						_		2	_		4
St. Saviour Southwark H -	15667 20480 16694 18959 23673 48282 16786	7 2 11 11 8 16 34 14	5 9 5 12 6 15 7	3 1 3 4 6 2	- 4	2 7 2 1	1	1	1	1	11111		1 1 -	1 1 1 -	2 1 - 2 2	2 1 - 3 1	1 1 22 1 1 22
St. Olave Southwark H	15707	2 4 12 8 36 22	7 9 9 5 17 6	2 4 - 6 3	1 1 3 1 -	3 - 3 -	11111		11111		- 1	111111		1 -	3 - 1 -	3 - 1	7 5 - 2 -
Waterloo-road 1st H Waterloo-road 2nd H	19470 35831 41284 31213	9 22 14 33 30 25 20 8	6 11 5 28 14 5 21 2	3 2 3 9 2 - 6 1	2 1 2 8 - 2 -	2 1 11 -		1 1 1 1 -	111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111111111	1	ĩ	2 1 6	1 - 1 - 1 -	1 - 2 -	- - 5 - 11
Clapham HL Battersea W Sandsworth HL Streatham Streatham	19797	19 54 5 6 12	9 32 9 1 1	11 2 -	5 - 1	1 6 - -			1111	1 2 -		1 -		ī - -	1	1 2 -	2 -
Dulwich — Camberwell WL+L+ — — — — — — — — — — — — — — — — — —		1 24 36 30	8 10 16	1 2 5	1 1 2	1 2 -	- - 1	111	-			- - 1	- - 1	- 2 -	1	1 -	1
St. Paul Deptford	6487 21098 19320	40 - 9 10	12 4 5 9	6 - 2 2	1 1 1 2	-	1 -		1111	1		=	1 -	1 - 1		-	- 6
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Charlton H Woolwich Dockyard Woolwich Arsenal H	18819	1 10 15 4 7	1 8 6 3 1	1 1 -	1 3 - 1 -	1111	11111	11111			1111	1111	î -	11111	11111	11111	11111
			-					1			-			_	_	-	-

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.
The Strand - , , , Tottenham-court sub-district.
London City - , , , Islington East.
Do. do. - , , , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.

London City , , , Mile End Old Town Eastern sub-dist. and
Stepney - , , , Bow sub-district.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL UBSERVATORY, GREENWICH, during the Week ending Saturday, 22d July, 1871. [Under the Superintendence of the Astronomer Royal.]

									Meteor	ologi	cal	Obs	erv	ation	s.	1		1		
				•	Ozone	:	-	::	:::	:	56		mean those	dry nean five	and and sults	well l by	r 31.	h of	Col.	d to
	RAIN.	Collected	in a Gauge	whose	is 5 in. above the	Inches	00.0	00.0	0.00	Sum 0.05	95		ve the nut with t	ter, the	The mean daily of the dry and The results	P.M., as termined	ical obse Decembe nd – "lou nderstoo	If-registe	of Lieut.	increase th; incre 22d; and
			Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles. 207	179	171 231	272 227 310	Sum 1597	\$ 60 \$ 60		idered to be 159 feet above the mean considered to be coincident with those The observations are taken at 9h. A.M.	e barome	1843. The values of edition.	and 9h. ters, as de	ling 1863, nigher," a	use of se	rmission	29.88 in. by 9h. P.M. on the 17th, increased to to 29.5tin. by 9h. P.M. on the 19th; increased sed to 20.48 in. by 3h. P.M. on the 22d; and was
ı		ers.		re foot.	Mean of 210bs.	lbs. 0·1	0.0	0.0	0.5	:	53		be 158 to be	of th	part 1, daily ourth	h. P.M.	the the rs end ead "?	by the	by pe	f. on P.M. o
ı		emome		onsdna	Least,	lbs. 0.0	0.0	0.0	0.0	:	55		ed to sidered	dings se tim	rans., ] mean ples, F	Son; 3 m ther	from 50 yea t+is r servat	ained on P	ship,	9h. P.7 oy 9h. 1. by 3
ı	WIND.	from Ar		Pressure on square foot.	Great- est.	lbs.	9.0	3.6	1:1	:	21		nsider	he res	those	.M.; n inimu	laisher n the nd tha ical ob	gar. ascert Scorpic	rd the m Poli	n. by 54in. 29.48in
	-	As deduced from Anemometers	Osler's,	Direction.	P. M.	WSW. &	WSW. & N.	NNE.& SE. SW. & W.	NNW. SW&SSW wsw. & sw.	SW, WSW, SSW	20	NOTES.	he cistern of the barometer is considered to be 159 feet above the The readings of the barometer are considered to be coincident with the district and the barometer of the considered to be coincident with the district and the parameter. The cheeven are taken at the	the Golds of the Branchest and the Branchest in the Branchest with the Golds of the Branchest will be a controlled by the Branchest will be a controlled by the Branchest will be a controlled by the Branchest will be a controlled into mean action of the Branchest will be a controlled into mean action of the Branchest will be a controlled into mean action of the Branchest will be a controlled into mean action of the Branchest will be a controlled by the action of the Branchest will be a controlled by the Branchest will be	any varies by the application of conference accuracy by an experience of the arms of the arms of the arms of the arms of the arms of the arms observations ending 183. December 31.—See Pin. Trans. part 1, 1845. The mean daily dow point and degree of humidity are deduced from those mean daily values of the dry and the bulb thermometers by Glaisher's Hygrouncireal Tables, Fourth edition. The results we than the bulb thermometers by Glaisher's Hygrouncireal Tables, Fourth edition. The results we have the bulb the arms of	the meant during the many temperature or not so as you all numbers seem to contain the second to the meant during the many temperature or not so as you all numbers seem to contain the many temperature of the dry thermometer, read at 91. A.M.; noth; 81. P.M.; at well as well as the result; deduced from the maximum and minimum thermometers, as deformined by the self-excitency them contains the maximum and minimum thermometers, as a deformined by the self-excitency them contains the maximum and minimum the many temperature. The average of the self-excitency of the maximum temperature of the self-excitency of the	temperature of the air is that determined by Mr. Glaisher from the thermometrical observa- tions taken at the Royal Observatory, Greenvich, in the 50 years ending 1853, December 31, *In reading the 17th column it will be borne in mind that his read "highery" and "tougor," than the average, The results of all the meteorological observations are to be understood as	applying to the event day, or from midnight to midnight.  The temperature of the water of the Thames is ascertained by the use of self-registering the removes a suspending the water of the Thames is ascertained by the use of the depth of the removes as unspending from the state of the Scorping Parket in the depth of the control of the second of the second parket in the depth of the second parket in the se	out tree decovered the resident inspector on board the ship by permission of LieutCol. tenderson. Landerson. Commission of Metropolitan Police.  The prediction L.B., C.B., C.B., Commissioner of Metropolitan Police.  The province of the herometer increased from 2019 in . at the beginning of the week to	30.00in. by moon on the 16th; decreased to 29.88 in. by 9h. P.M. on the 17th; increased 29.92in. by 9h. A.M. on the 18th; decreased to 29.54in. by 9h. P.M. on the 18th; increased to 29.54in. by 9h. P.M. on the 22d; and when 29.35in, at the end of the week.
				General	A.M.	SW. &	SSW. &	N.& NNE SE,E, &	NNW. Calm & SW. SSW.	SW, WS	19		of the bar ngs of the l	P.M. The thermometer	845, Decemb nidity are d Glaisher's	rmometer, red the maxin	at determines servatory, Can it will be Its of all the	rrom midni rater of the rom the sic	ident insperimentsioner of	30 to in. by moon on the 16th; decreased to 29 to 29 to 15 t
ı	Degree	of Hu-	complete Satura-	being repre-	sented by 100.	80	88	92	61 73 84	75	18		cistern e readi	1 9h.	ding 1 of hu	fry the	ir is the syal Ok	day, or f the v	the residence of the party of t	the 16 on the M. on f the w
Compart tomorrous tasts one for		4	perature of	mean tem-	the same day on an average of 50 years, *	1.9 +	+ 5.7	++ 5.3.4	+ 2.1	+ 3.8	17		The height of the cistern of level of the sea. The readings	the moyal Society's little glass shoon; 3h. F.M.; and 9h. F.M.; thermometer, and the wet there is the most constitution.	ervations er and degree thermomet	uany vempons of the constitute deductions and the constitute deductions and the constitute of the cons	ure of the am at the Ring the 17th	applying to the civil day, or from the temperature of the water thermometers, suspended from the civil of the	ndence of n, E.E., C.I	oy noon on by 9h. P. the end o
ronome	DIFFERENCE	Point			Least.	4.5	0.0	3.8	5.1	3.6	16		he hei of the	n; 3h rmome	rs' obs	mean ervatio the res	peratus take	dying he ten	erinte nderso	00 in. 1 02 in. 1 29 87 in. 8
100 7120	DIFF	Between Dew	Temperature and	Air Temperature	Great-	17.9	14.8	21.8	20.7 18.7 13.2	17.8	15		leve			-				20 20 30
o Co an		Betwee	Ter	Van V	daily value.	6.3	3.8	13.6	13.7	8.4	14			of claud	w., and became	ids pre-	and again of a short	st after	9h. A.M	
Under the Superintendence			Water of	istering	Lowest.	61.4	62.5	62.5	9.99	63.7	13			Amount of claud	the sky	noon. Light clouds pre-	8h. A.M., an	Overcast	nother at	ı fell.
e ouper			In the Water of the Thames at	self-registering Thermometers.	Highest	65.2	0.49	67.4	68.6 68.4 68.4	67.4	12	HERE			roke abo it, when	noon.	and 8h the ex	eirro-cumulus.	M., and a vening.	rs of ruit
maer en	TERS.	Lowest	Grass, as	a self- register-		57.0	54.1	55.3	54.0 53.6 48.7	52.9	1=	AND ATMOSPHERE.		in the mo	e clouds l	y fine till ning.	tween 6h hout, witl	and cirro-c	out 6h. A.	ant showe
	THERMOMETERS.	Highest in	shown by a self-regis-	tering Thermo-	bulb in vacuo, pluced on the Grass.	138.7	136.8	135.8	128.9 140.5 110.0	131.9	10	SKY AND A		Hazy and misty in the morning.	in morning, but the clouds broke about 11h. A.M., and decreased in amount till night, when the sky became adjess.	Generally cloudless, and very fine valent in the afternoon and evening.	lrops of rain fell between 6h. and p.r.k. Chaudy throughout, with the ne evening.	cumulus a	shower of rain fell about 6h. A.M., and another at 9h. A.M. cloudy till night. Very fine evening.	ariable day. Frequent showers of rain fell
١	NGS OF		Point.	Mean	daily value.	62.8	64.1	53.7	49.8 54.5 56.0	57.1	6	SI		y. Bazy	n morn ereased less.	eloudles afterno	A few drops of rai about fl. P.M. Cloud peried in the evening.	chieffy	ower of	riable d
	READIN			Mean	daily value,	69.1	6.19	6.99	63.5 63.2 60.9	65.5	000			A fine day variable.	Overcast i gradually de nearly cloud	nerally at in the	few draft Th. P.	Cloudy; ob, P.M.	A light sh Generally el	A very va:
١	-		. A.	Range	in day.	20.6	23.9	17.0	14.1 20.2 18.0	20.0	1	-		A Taria	grad near	Ge	about peric	Sh. P	Genu	₹
		6	Ury.		Low-	9.09	58.7	59.6	58.4 54.9 54.9	57.3	9			-:	generally			•		
				1	est.	81.2	9.78	9.94	72.5	77.3	52	HILY.		tension		ght,			_	ght.
	BARO-	Mean	reading	rected and re-	duced to 32 degr. Fahren heit).		29-920	29.880	29.807 29.739 29.500	29.775	1 4	ELECTRICITY		Positive, with weak tension.	positive	Weak positive at night.	A little weak positive.	icity.	itive.	Weak pos'tive at night.
	MOON.		Dieze	Jo	Moon.	Greatest	New New	: :	:::	:	00	EL		Positive,	Moderate shown.	Weak pos	A little w	No electricity	Weak positive.	Weak pos
				DAY.		16	17	18	22	1:	nns.	-	1 1	16	17 sh	18	19	20		53
			1871.	ONTH AND DAY.		JULY.	ONDAY .	UESDAY .	HURSDAY.	MEANS	o. of Columns	DATE.	July.	INDAR . 1	ONDAK . 1	JESDAY . 1	EDNESDAT 1	TURSDAY . 2	IDAY . 2	TERDAY.

## WEEKLY RETURN

#### AND BIRTHS DEATHS AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 30. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, JULY 29.

General Register Office, Somerset House, 31st July 1871.

During the week ending Saturday the 29th instant, 4775 births and 3305 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality in the week was at the annual rate

of 24 deaths in every 1000 persons living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:--London 23 per 1000; Portsmouth 11, Norwich 12, Bristol 22, Wolverhampton 13, Birmingham 20, Leicester 27, Nottingham 30, Liverpool 27, Manchester 29, Salford 36, Bradford 15, Leeds 21, Sheffield 21, Hull 22, Sunderland 37, and Newcastle-upon-Tyne 37. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had been 264 and 268, declined to 222 last week; in Newcastle the deaths from this disease corresponded with the number in the previous week, while they showed a decline in each of the other towns. The fatality from diarrhea, principally infantile, in these seventeen towns, which in the two previous weeks had been 129 and 195, rose last week to 340. The annual death-rate from diarrhoea in the week ending last Saturday was equal to 3 per 1000 in London, 5 in Manchester and Salford, 2 in Liverpool, and 5 in Leeds.

In Edinburgh the annual rate of mortality from all causes last week was 25 per

1000 persons living, in Glasgow 33 per 1000, and in Dublin 20.

In Paris 778 deaths were returned in the week ending 28th instant, and the annual death-rate was equal to 22 per 1000 of the estimated population. In Brussels 97 deaths occurred in the week ending 22d instant, and the annual deathrate was 27 per 1000. In Berlin during the week ending 27th instant 849 deaths were recorded, showing an annual rate of 55 per 1000; 315 were referred to infantile diarrhea, and 124 to small-pox.

Dr. Zuelzer in forwarding his weekly return for Berlin states that the reports as to the progress of Asiatic cholera are incomplete, but that it is certainly entering Riga on the Baltic, at the mouth of the Dwina. In Tambow, out of 30,000 inhabitants, 458 died from cholera in the week ending 13th July: this is in Central

Russia where the sanitary conditions are unfavourable.

In the City of New York 710 deaths were registered in the week ending 8th instant, and the equivalent annual rate of mortality was 39 per 1000.

In Bombay the deaths registered during the week ending 4th instant were 262, and the mortality was at the annual rate of 17 per 1000.

In London 2137 births and 1420 deaths were registered last week. After making due allowance for increase of population, the births were 33, and the deaths 339, below the average numbers in the corresponding week of the last ten years.

The mortality in the Western group of Districts was at the annual rate of 18, in the Northern group of 24, in the Central group of 23, in the Eastern group of 26, and in the Southern group of 22 per 1000 persons living.

[30.]

Zymotic diseases caused 468 deaths last week, including 122 from small-pox, 18 from measles, 19 from scarlet fever, 8 from diphtheria, 22 from whooping-cough, 25 from different forms of fever (of which 9 were certified as typhus, 9 as enteric or typhoid, and 7 as simple continued fever), and 201 from diarrhea; thus to the seven principal diseases of this class 415 deaths were referred last week, against 314 and 339 in the two preceding weeks. The fatal cases of diarrhea, which in the three previous weeks had been 39, 64, and 110, further rose last week to 201. In addition to these, 17 deaths were referred to cholera and choleraic diarrhea (against 4 and 9 in the two previous weeks) of which 13 were of infants not exceeding one year of age, and four were of adults aged between 40 and 60 years. Two of the latter cases call for especial notice on account of the short duration of the disease; a printer, aged 56 years, died on 26th instant in Richard Street, Islington, of "choleraic diarrhea, 24 hours, exhaustion;" and the wife of a crate-maker, aged 44 years, died on the same day at Armagh Road, Bow, whose death was certified as "choleraic diarrhea, 18 hours." It is highly important at the present time that the greatest energy should be used in securing prompt and efficient treatment in the earliest stages of diarrhea, for it cannot be too generally known that all cases of cholera commence with diarrhea.

The deaths from small-pox in London, which in the two previous weeks had been 133 and 135, declined last week to 122. In six permanent and temporary hospitals for this disease 54 deaths were recorded last week, of which 25, 10, and 14 respectively occurred in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths, it appears that 14 belonged to the West group of Districts, 33 to the North, 8 to the Central, 27 to the East, and 40 to the South; these numbers showed a slight increase in the East and South of London, while they had declined in each of the other groups of Districts. Six deaths from small-pox were returned last week in Kentish town, and 4 each in Mile End Old Town Eastern, St. Peter Walworth, and Battersea sub-districts.

To different forms of violence 58 deaths were referred last week; of these 52 were caused by accident or negligence, including 21 by fractures and contusions, 2 from burns and scalds, 12 from drowning, 8 from suffocation, and 5 from poison. Three of the deaths from fractures and contusions were caused by horses or vehicles in the streets, all being of young children, 2 run over by vans, and one by a Hansom cab. A ship's steward, aged 25 years, died in the Seaman's Hospital at Greenwich on 25th instant, from pyæmia, resulting from a gnat bite. Three deaths from suicide, and 2 from murder or manslaughter were registered last week.

In the large Public Institutions of the Metropolis 224 deaths were recorded last week, showing that of each 100 deaths in the week 16 occurred in these Institutions, of which 6 were registered in Workhouses, and 10 in Hospitals.

Dr. Frankland reports that all the waters supplied to the Metropolis during the month of July were clear and transparent. The best sample was that furnished by the Kent Company from deep wells sunk in the chalk, and the next in order of quality was that supplied by the New River Company, and derived partly from wells and springs in the chalk, and partly from the River Lea. Of the Thames waters the best sample was delivered by the Chelsea Company, and the worst by the Grand Junction Company. Dr. Hill reports a considerable improvement in the quality of the Birmingham water supply, the quantity of organic elements showing a diminution.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.49 in.; the highest reading was 29.82 in. at 9 p.m. on Friday, and the lowest 29.24 in. at 9 a.m. on Tuesday. The mean temperature of the air was 60°.4, or 1°.5 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature showed a slight excess on Thursday, while it was below the average on each other day of the week; the coldest day was Tuesday, when the mean temperature was only 58°.8, and 3°.0 below the average. The highest day temperature in the shade was 76°.6 on Thursday; the lowest night temperature 51°.9 on Sunday; the entire range of temperature in the week was, therefore, 24°.7. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 139°.0 on Monday. The difference between the mean

dew-point temperature and air temperature averaged 8°·1; the air was therefore dry. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 65°·6 last week. The mean degree of humidity of the air was 75, complete saturation being represented by 100. The general direction of the wind was W.S.W., and the horizontal movement of the air in the week averaged 14 miles per hour. Rain fell on every day excepting Thursday, to the amount of 0°66 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 55°·5 in Salford, to 58°·2 in Nottingham; the lowest recorded night temperature was 47°·0 in Wolverhampton, Salford, and Hull, and the highest day temperature in the shade 73°·6 in Nottingham. Rain was measured last week in each of these towns; the amount varied from 0'·61 of an inch in Nottingham, to

1.47 inches in Leicester.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 15°.78; the highest day temperature in the shade was 24°.77, the lowest night temperature 11°.06, the highest temperature in the sun was 41°.67. The mean temperature of the corresponding week in 50 years averaged 16°.61, or 0°.83 above the temperature of last week. The wind blew at the rate of 22 kilometres an hour; and the rain-fall measured 1.68 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 229,713 cubic metres, and at Barking 266,258 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

The REGISTRAR GENERAL has to acknowledge the courtesy of the London Water Companies, who have furnished him with the average daily quantity of Water supplied for the month of June 1871: thus, according to their account, 111,292,104 gallons or 505,651 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 103.7 decalitres, rather less than a ton by weight, to each house, and 14.6 decalitres (= 32.2 gallons) to each person.

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of June 1871, it may be estimated that about 91,459,848 gallons were probably used for domestic purposes, or about 26.4 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Registrar General has no means of giving a more exact estimate.

Companies,			Houses, &c.	in Gallons (in Manufactures purposes other	upply of Water cluding that for and for various er than for do- mption) during
		MAY 1871.	JUNE 1871.	MAY 1871.	JUNE 1871.
TOTAL SUPPLY		487,198	487,692	108,692,357	111,292,104
From Thames . From Lea and from other Sources .	•	226,490 260,708	226,902 260,790	56,310,864 52,381,493	57,916,320 53,375,784
THAMES. Chelsea West Middlesex Southwark and Vauxhall Grand Junction Lambeth		27,838 41,978 78,406 31,820 46,448	27,838 42,209 78,448 31,820 46,587	8,449,400 9,019,259 16,432,572 11,336,133 10,473,500	8,982,800 9,783,547 16,434,254 11,825,019 10,890,700
LEA AND OTHER SOURCES.  New River East London Kent	•	118,721 101,852 40,135	118,803 101,852 40,135	24,706,000 19,807,000 7,868,493	25,313,000 20,455,000 7,607,784

Note.—The Return for June as compared with that for May shows an increase of 494 houses and of 2,599,747 gallons of water supplied daily.

#### Analysis of Metropolitan Water Supply for July.

Sir, Royal College of Chemistry, 28th July 1871.

I have the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the Metropolis during the month of July, and I append also the results yielded by the Birmingham water supply furnished by Dr. Hill.

All the waters supplied to the Metropolis were clear and transparent.

The best sample of water delivered by the London Companies was that furnished by the Kent Company from deep wells sunk into the chalk; next in point of quality to this stands the sample obtained from the New River Company's mains, this water being derived partly from wells and springs in the chalk and partly from the river Lea.

The worst sample of Thames water taken this month was that drawn from the main of the Grand

Junction Company, the best being that delivered by the Chelsea Company.

Dr. Hill reports that on the 3d inst. the Birmingham water-supply was pretty clear, and that since last month the quality had very considerably improved owing to a diminution in the quantity of the organic elements.

The Registrar General, &c., &c.

I have, &c., E. FRANKLAND.

#### RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

	TOESCETS OF TINALISIS										
Companies.	Date and Place of Collection.	Temperature in centigrade degrees.	Total Solid Impurity.	Organic Car- bon.	Organic Nitro-	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sewage or Animal Contamination. (Estimated.)	Chlorine.	- Commence of the second secon
THAMES. Chelsea	{ Cab Rank, Horse Guards }	17.5	25.90	•148	•018	.000	•151	•169	1190	1.70	2
West Middlesex -	{ Cab Rank, Portland-road }	18.2	25.26	•153	•017	.000	.075	•092	430	1.65	2
Southwark and Vauxhall	{ Cab Rank, St. George's Church, Borough. }	18.2	25.20	•182	*023	•000	104	•127	720	1.70	2
Grand Junction -	$\left\{\begin{array}{c} \text{3d July,} \\ \text{Cab Rank, Woodstock-} \\ \text{street.} \end{array}\right\}$	17.8	26.04	•185	•030	•000	*095	•125	630	1.70	2
Lambeth	{ Cab Rank, Lambeth-road }	17.8	26*50	•158	*023	•000	*146	•169	1140	1.70	2
OTHER SOURCES. New River	{ Cab Rank, Tottenham- court-road.	17.7	24.76	•049	.011	•000	•154	•165	1220	1.60	94
East London	{ Royal Hotel, Mile-end- road.	17.0	24.30	*157	026	•000	•082	108	500	2.00	]
Kent	$\left\{ egin{array}{l}  ext{4th July,} \  ext{Deptfd. Bdge. Police Stat.} \end{array}  ight\}$	15.5	39.14	.021	•010	•000	*442	•452	4100	2.40	94
Birmingham*	{     3d July,     Birmingham Waterworks }	-	22.20	*378	*039	*002	*205	*245	1753	1.70	1
Column 1.	2.	3.	4	5.	6.	7.	8.	9.	10.	11.	1

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 3d July at the Horse Guards' cab-rank had a temperature of C.  $17^{\circ} \cdot 5$ ; 100,000 lbs. of it contained 25.90 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained 148 lb. of carbon and 018 lb. of nitrogen. The above quantity of water contained no ammonia, and 151 lb. of nitrogen in the form of nitrates and nitrites, whilst the total amount of combined nitrogen in every form was 169 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contaminated with animal matter equivalent to that contained in 1190 lbs. of average London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 1.70 lbs. of chlorine. Finally, 100,000 lbs. of the water contained 21.48 lbs. of carbonate of lime, or an equivalent quantity of other hardening or soapdestroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation

transforms the hardness in the Table into degrees of hardness on Clark's scale.

TABLE 1. LONDON .- Births and Deaths Registered LAST WEEK, and in the THIRTIETH Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1871
Males Females .	1804 926 878	1758 887 871	1892 994 898	1951 1011 940	1947 1005 942	1989 1016 973	2163 1107 1056	2003 980 1023	2142 1066 1075	2078 1076 1002	1972 7 1006 8 965 9	2137 1058 1079
Males Females	1207 621 586	1137 618 519	1452 733 719	1607 848 759	1414 758 661	2600 1312 1288	1347 687 660	1885 945 940	1646 863 783	1760 874 826	1599·5 825·4 774·1	1420 734 686

Note.—The deaths of last week may be compared with the average of deaths in corresponding weeks of 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

					_	_							
	May 6.	May 13.	May 20.	May 27.	June 3.	June 10.	June 17.	June 24.	July 1.	July 8.	July 15.	July 22.	July 29.
OTAL Deaths	1522	1341	1486	1401	1393	1437	1349	1296	1328	1200	1259	1281	1420
Deaths under 5 years of age	568 183	519 142	594 152	485 153	513 137	548 150	477 135	495 131	541 135	466 122	507 127	578 97	739 104
Deaths 20—40	276 253 193 49	232 189 213 46	260 214 207 45	270 227 217 49	242 236 223 42	271 218 219 31	257 229 204 47	248 196 189 37	238 215 165 34	199 190 185 38	202 182 197 44	200 212 164 30	203 159 177 38
Deaths from Smallpox , , Measles , Scarlet Fever - , , Diphtheria - , Whooping-cough	288 17 29 4 36	232 16 35 2 25	267 11 28 8 43	257 23 28 2 48	229 16 25 10 28 10	245 23 34 6 32 4	240 21 17 9 29	232 27 24 3 33 6	235 15 16 8 36 4	164 12 24 4 30 8	133 22 40 9 23 7	135 17 24 1 28 5	122 18 19 8 22 9
" Typhus fever " Enteric (or Ty-) phoid) fever " Simple Cont <sup>a</sup> fever " Diarrhœa -	14	9 4 13	18 7 22	8 8 12	20 13 20	12 14 23	13 6 24	9 7 20	11 7 46	4 5 39 3	10 6 64 4	9 10 110	9 7 201 17
", " Simple Cholera - ", " Phthisis - ", " Bronchitis - ", " Pneumonia - ", " Heart Disease -	183 123 58 66	154 108 50 71	170 100 62 53	154 95 52 57	1 148 81 58 64	1 188 93 62 68	151 90 60 68	131 82 48 55	147 82 38 52	165 59 44 68	148 68 37 48	9 144 59 40 56	149 48 52 49
Mean Temperature of the Air	49.7	47.6	50.1	56.7	53.9	49.9	59.5	56.2	56.6	60.5	61.7	65.5	60.4
Mean Temperature of the Water of the Thames -	52.7	53.2	52.4	55.6	59-1	56.3	57.2	56.1	60.4	61.4	63.2	65.6	65.6
Humidity of the Air	74	76	73	72	. 77	76	85	84	73	76	78	75	75
Rain-fall in inches	0.50	0.12	0.16	0.22	0.10	0.31	1.05	1.50	0.05	0.87	1.51	0.05	0.66

Note.—The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.: —W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Harthup, Esq., F.R.S. Lingwood, T. Mackayath, Pag. B.P.A.S. Endowered, T. Mackayath, Pag. B.P.A.S. Endowered St. F.M.S., Nottingham; J. Harthup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 29th day of July 1871, in the following large Towns.

		zotzi day	or o ar	101,13 111	the lone wi	8	0 20112	100			100
CITIES	Area in Acres.	POPULATION estimated to the middle of the Year 1871.*	Persons to an Aere. (1871.)	BIETHS registered during the Week ending 29th July 1871.	DEATHS registered	TEMPERATURE OF THE AIR. (FAHRENHEIT.)			TEMPERA- TURE OF THE AIR. (CENTI-	· Rain Fall.	
BOROUGHS.  (Municipal Boundaries for all except LONDON.)					during the Week ending 29th July 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Centi- metres.
Total of 20 Towns in the United KINGDOM -	213,281	7,215,757	33.8	4775	3305	76.6	43.8 .	56.9	13.83	1.10	2.79
LONDON	77,997	3,263,872	41°8	2137	1420	76.6	51.9	60.4	15.78	0.66	1.68
PORTSMOUTH	9,513	113,450	11.9	92	23	1 L	,	. +	1 -	1.13	2.87
Norwich	7,472	80,533	10.8	53	19	71.2	49.0	57.5	14.16	1.12	2.92
BRISTOL	4,688	183,298	39*1	128	79	-			77		
WOLVERHAMPTON -	3,387	68,476	20.2	50	17	72.0	47.0	56.4	13.22	0.88	2.24
BIRMINGHAM -	7.831	344,980	44.1	221	130			1 44 .	1 to 1		
LEICESTER	3,200	95,882	30.0	50	49	72.0	48.0	57.7	14.28	1.47	3.73
NOTTINGHAM	1,996	86,929	43.6	49	. 50	73.6	47.8	58°2	14.55	0.61	1.55
LIVERPOOL	5,108	494,649	96*8	274	258	67.0	48.9	56.2	13.44	0.83	2.11
MANCHESTER	4,486	356,099	79*4	240	201	-		-		Territoria.	
SALFORD	5,172	125,422	84*3	98	87	68.7	47.0	55.5	13.05	1.42	3.61
BRADFORD	6,590	146,987	22.3	103	43	68*8	50°5	57.6	14.22	0.76	1.93
LEEDS	21.572	260,657	12.1	180	103	69.0	48.0	56.9	13*83	0.66	1.68
SHEFFIELD	22,830	241,507	10.6	204	96	70.0	48.0	56.6	13.66	0.87	2.21
HULL	3,562	122,266	34.3	,98	. 51	72.0	47.0	56.7	13.72	1.20	3.02
SUNDERLAND -	3,306	98,797	29.9	66	70	<u></u>	:				-
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	71	91	67.0	49.0	55.7	13.16	±	-
EDINBURGH	4.427	201,728	45.6	149	97	67.7	45'0	55.4	13.00	1.00	2.24
GLASGOW	5,063	479,227	94.7	341	300	66.2	44.5	55.3	12.94	2.00	5.08
DUBLIN	9,745	322,321	33.1	171	121	71.7	43.8	57.1	13.94	1.80	4.57

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by adding 1-40th of the rate of increase which prevailed between 1861 and 1871; the numbers for Edinburgh and Glasgow have been furnished by the Registrar General of Scotland, while those for Dublin are still the estimated numbers recently used.

† Observations imperfect owing to removal of station.

‡ Gauge out of order.

Table 4.—Dears and Rate of Mortality in 17 large English Towns, and in Dublin, during the Week ending Saturday the 29th day of July 1871.

·	ANNUAL	1200	The DEATHS registered in the Week include											
BOROUGHS, &c.  (Municipal Boundaries for all except London.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Institutions.
Total of 17 Towns -	23	2787	960	390	222	54	56	11	50	59	340	86	159	381
LONDON	23	1420	523	215	122	18	19	. 8	22	25	201	58	96	224
PORTSMOUTH	11	23	3	8	1	1 _ 1	2	1 - 1	= .	1	-	- :	-	5
Norwich	12	19	7	6	~	-	-	-	-			. +		. 1
BRISTOL	22	79	23	15	-	1	7	- N	3	2	4	2	4	11
WOLVERHAMPTON -	13	17	6	2				-	-	2		<u> </u>	-	2
BIRMINGHAM	20	130	- 33	16	-	6	3		8	2	7	3	11	19
LEICESTER	27	49	17	5	-	1	2	~	-	3	7	-	2	6
NOTTINGHAM	30	50	19	9	1	2 .	-	-	- '	1	7	3	4	5
LIVERPOOL	27	258	88	37	20	11	7	-1	8 .	9	23	6	10	38
MANCHESTER	29	201	72	17	14	4	2	-		2	32	4 -	10	26
SALFORD	. 36	87	24	. 8	4	6.	1		3	-	16	1 .	. 4	6
BRADFORD  -	15	43	14	9	-	-	-	-	- :	1	7		1 7	3
LEEDS	21	103	45	10	-	1	2	-	1	4	24	1 - 1	8	6
SHEFFIELD	21	96	30	12	1	1	8	-	3	2	10	5	7	1 4.
HULL	22	51	17	6	<u> </u>	3	-	1 4	-	2 .	. 14	2	-3	16
SUNDERLAND	37	70	17	7	32	-	3	1	1	3	· + .	1	2	8
NEWCASTLE-ON-TYNE -	37	91	22	13	27		-	~ 1	1	: :	5	1	8	11
DUBLIN	20	121	22	19	-		8	-	1	10	.4	5	6	42

TABLE 5.—DEATHS in LONDON Registered in the THIRTIETH Week of the Year 1871.

		1														
	he ek 11-70.	S	In that	he W	eek d July	endii 29, 1	ıg 871.			he ek 31-70.	S	In that	he W lay,	eek d July	endir 29, 1	ng 871.
	verages of the hirtieth Week 10 years 1861-70.		Deat		Per		of			Averages of the Thirtieth Week the 10 years 1861-70.		Deat	hs of the	Pers	sons	of
CAUSES OF DEATH.	Averages of Thirtieth The 10 years	ALL		der	r 40.	. 60.	r 80.	and	CAUSES OF DEATH.	rerage nirtiet 10 yea	ALL	Un		40.	. 60.	r 80°
1 1 1 1 1	Av Th	Mean	2		under	under	under	ars a		Av Th	Mean		-	under	under	60 and under
		Tem.	0-6.	5-20.	and	and	and	O Years upwards.	7	62.5	Tem.	0-6.	5-20.	and	and	and Vos
Mean Temperature -	62.5	60.4	0	70	20	40	09	08	Mean Temperature -	62.5	60.4	-0	22	20	40	9
ALL CAUSES	1599·5 1580·7			104		159 159	177	38 38	9. Stricture of Intestines - 10. Fistula 11. Stomach Disease, &c	6 4 7.7	7	1		1	- 2	- 4
SPECIFIED CAUSES  I. ZYMOTIC DISEASES.	1500 7	1914	199	104	203	100	170		12. Pancreas Disease, &c 13. Hepatitis 14. Jaundice	4.3	ī		-	-	-	1
ORDER 1. 1. Small-pox	13.2	122	47 17	31	36	6	2	-	15. Liver Disease, &c 16. Spleen Disease, &c	6·3 17·4	13 -	2	-	1 4	3	5
3. Scarlet Fever (Scarlatina) 4. Diphtheria	35.6 57.4 8.3	18 19 8	17 16 3	1 3 4-	1	-	=	-	ORDER 5.	1.0	1	1	_	-	_	-
5. Quinsy	11.9	6 22	$\frac{-}{6}$	- 1	T.A.	-	-	Ē	2. Ischuria 3. Bright's Disease (Nephria)	7·8 1·4	9	1	-	1 3	5	2
8. Typhus	47.0	9 9 7	1	1 3 2 1 1	1241	3	2	1	5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	*6 *4 7*1	- - 4	=	-	-	-	- 3
9. Erysipelas 10. Puerperal Fever (Metria)	5.1	8	3 -	-	4	2 -	1 2 -		ORDER 6.						_	
11. Carbuncle	3°1	2 - 4	3	-	=	ī	_	2	1. Ovarian Dropsy 2. Uterus Disease, &c	4.2	1			ī		1
14. Diarrhea	277'8	201 17 1	191 13	1		4	6 -	_	ORDER 7.  1. Synovitis (Arthritis) –  2. Joint Disease, &c. –	*2. 4*5	- 3	-	3	-	-	-
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	4.8	11	1	2	- 5	2	ī	- - - -	ORDER 8. 1. Phlegmon	1.7	2				1	1
ORDER 2.	8.9	9	9	-		_	-	_	2. Ulcer	1:0	-		-	-	-	-
2. Stricture of Urethra - 3. Hydrophobia 4. Glanders	:7	=	-	-		-	-	1 1	IV. DEVELOPMENTAL DISEASES.							
ORDER 3.	-3	1	-	1	-			-	ORDER 1. 1. Premature Birth	20.0	32	32		-	-	-
2. Want of Breast-milk - 3. Purpura and Scurvy - 4. Alco- (α Del. Tremens - holism ) b Intemperance -	16.6 1.7 3.2	14 2 4	14 2	-	-	2	-	1 - 1	2. Cyanosis 3. Spina Bifida 4. Other Malformations -	1.5 1.7 1.4	5	1	-	-	1	-
ORDER 4.	1.3	-	_	_	=		-		5. Teething ORDER 2.	17.7	27	27	_		-	-
1. Thrush	6.9	8 -	8 -	= -	· .	=	-		1. Paramenia 2. Childbirth (see Puer-)	*4 5*3	6	-	-	5	-	-
II. CONSTITUTIONAL DIS.									peral Fever) { ORDER 3.							
1. Gout	2°5 10°3 33°2	1 11 31	3	1	-	- 4 16	1 4 11	3	1. Old Age ORDER 4.	43.5	34				_	16
4. Cancrum Oris (Noma) - 5. Mortification	3.4	2	Ē				2	-	1. Atrophy and Debility -	90.5	74	65			3	6
ORDER 2.  1. Scrofula 2. Tabes Mesenterica	9.3	11 36	7 32	1 3	2	1	-	-	V. VIOLENT DEATHS, &c. ORDER 1.							
3. Phthisis 4. Hydrocephalus	154·4 30·1	149 29	13 27	9 2	79	33	15	-	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions	15:4	21	3	6	4	4	4
III. LOCAL DISEASES. ORDER 1.									2. Wounds 3. Burns and Scalds 4. Poison	4.3 1.1	1 2 5 12	2 1 1	1	1 5	-	2
1. Cephalitis	16°0 27°0 21°5	15 35	7 5	4 2	2	1 7 8	1 15 12	44	5. Drowning 6. Suffocation 7. Otherwise	11·3 5·7 4·0	12 8 3	1 8 1	5 -	5	=	1
4. Insanity	1.8	23	=	-	2 -	- 2	-	-	ORDER 3.							
6. Epilepsy 7. Convulsions 8. Brain Disease, &c	6°0 50°5 16°4	68 19	63	2	1 - 4	2 2	- 2	-	(Homicide.) 1. Murder and Manslaughter	2.0	2	1	-	-	1	-
ORDER 2.	2.9	1	-	-3	1	-	-		ORDER 4. (SUICIDE.)							
2. Aneurism ORDER 3.	1.6	1 49	=	2	14	1 16	15	2	1. Wounds { Gunshot - Cut, Stab -	114	-	=	- 1	-	-	-
1. Larvneitis	4·8 54·8	6 48	4 14	1 2	2	9	1 19	- 2	3 Drowning	1.4	2 1	-	ī	1	1	-
2. Bronchitis	2°3 42°2 4°2	52 1 3	33	14	6	2 5 - 1	4	-	5. Otherwise ORDER 5.	*8	-				-	
6. Lung Disease, &c ORDER 4.	9.3		ī	-		1	·ī	-	(EXECUTION.) 1. Hanging	_	-	-	-	-	-	-
1. Gastritis	1.9 9.0 4.6	9	2 2 -	ī	1	1	1 4		Violent Deaths (not classed)	*3	1	-	-	1	_	-
4. Ascites	2·7 2·7 2·9	1 1 3	=	1	1	-	1	1 -	Sudden Deaths (Cause un-)	3.1	1	1	-	-	-	-/
6. Hernia 7. Ileus 8. Intussusception	3.5	1 4 2	2	-	-	ī	2 -	-	Causes not specified or ill- defined	15.7	5	3	-	-	-	2
					-	-	-									-

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

ABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

-														uui	mg	tne	** CC	r ém	ung
				during	during				The	DEAT	ns re	gistere	d in	the W	eek i	nclude	•		
	REGISTRARS' SUB-DISTRICTS.		Enumerated Population. 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
	LONDON	-	3,251,804	2137	1420	523	215	122	18	19	8	22	9	9	7	201	58	96	224
	WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	11111	561,189 751,668 383,887 638,928 966,132	326 471 195 492 653	199 845 145 822 409	78. 129 52 135 129	37 43 27 44 64	6 52 3 21 40	5 1 2 4 6	3 2 - 1 13	2 1 1 1 3	4 6 7 5	6 - 1 2	3 2 1 2 1	2 1 - 4	36 57 18 51 39	9 12 4 11 22	13 22 6 25 30	28 79 21 44 52
	WEST DISTRICTS.  th. Mary Paddington WH - th. John Paddington H - tensington Town WL Strompton H - th. Paul Hammersmith H - th. Paul Hammersmith H - thelsea Such HH - thelsea North-west HWw - thelsea North-west L - thelsea North-east L - thanover Square - May Fair W - th. John Westminster HHH th. Margaret Westminster WHII th. James's Square Jolden Square W derwick-street - th. Anne Soho HH -	H	58702 38082 91583 28661 6662 56080 23578 23419 23278 21389 18700 18020 58043 38470 27640 10453 12855 10279 17555	39 16 58 13 4 24 9 24 12 7 9 5 35 22 16 4 8 13	20 11 87 9 2 6 10 5 14 3 4 2 2 2 2 2 15 2 5	13 14 14 11 13 86 1 11 7 86 -2 6	2182122 (31 31216 (11	122	1 2 - 1 2 - 1 - 1 2 - 1 - 1 2 - 1 - 1 2 - 1 - 1	111111111111111111111111111111111111111	1101111111111011	1		- 11 -	1	31711 221474 3	1131	11711111811118	3217 - 12 - 177 - 13
THE PARTY CONTRACTOR AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T	North Districts.  Ill Souls Marylebone HH — avendish Square — tectory Marylebone WH — t. Mary Marylebone WH — t. Mary Marylebone — L. John Marylebone — t. tenham-court with — tray's Inn Lane H — tray's Inn Lane H — amden Town W — amden Town W — slington West* WHHH — lington East Www — toke Newington L — tamford Hill — twest Haekney lackney WieHL — lackney WieHL — lackney WieHL — lackney WieHL — lackney Leventy — lackney Wiehl — lackney Wie		28574 15419 26387 21795 33892 21795 33100 32271 38192 29360 29216 83562 18066 68198 97891 115945 9190 6599 28076 50087	17 5 19 16 18 15 17 17 23 26 24 13 58 61 69 5 5 15 82 16	16 8 12 17 20 11 37 10 12 13 15 14 29 32 44 3 3 11 27	9443893 33855 15725 124866	1   ୪୦୦୦ ୩ ୦ ୧୯୦   ୧୯୧୯ ୧୯୩ ୧   ୧୯୦୧୯	27 - 11 16 4 - 10 -		AUTHOR COLOR OF THE COLOR	THE COURSE OF THE PARTY OF THE	11122	1			731761   211525 48     22	11121111111111111	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	29 -62 -7 -7 -114 -
では、 では、 できない。 できない できない できない できない できない できない できない できない	CENTRAL DISTRICTS. L. George Bloomsbury L. Giles South WH		17843 19069 16497 19369 19831 9876 19771 13528 19051 18912 16878 13293 16220 12156 18291 13790 10782 14484 13699 17682 11184 4389 4744 5094 7838	8 19 8 9 5 3 5 9 3 5 3 13 10 7 12 20 6 9 6 4 5 7 7 1 3 - 1 4	6 14 11 4 4 4 5 4 7 6 5 8 6 4 3 4 4 11 7 7 5 10 7 7 1 - 1 - 5	4444 1231 421432217711 -2 -3	1 3 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	ministration of the state of th		The state of the s				1 2 2 2 1 1 1 2 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 2 1	2	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 - 1 1 3 - - - 1 2 - - - - - - - - - - - - - - -

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

Workhouse;

H.—Hospital;

L.—Lunatic Asylum;

w.—A Workhouse not belonging to the district in which it is situated.

Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

		during	ing				The I	DEATI	is reg	istere	d in	the W	eek ii	aclude			
REGISTRARS' SUB-DISTRICTS.	Enumerated Population. 1871.	Total BIRTHS dur	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhæa.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26944 24153 19257	6 12 24 21 24 18	5 9 22 14 17 11	1 4 13 9 1 8	1 3 1 8 2	11111	11111		1 - 1 - 1 - 1		1	111111	111111	1 1 7 4 1 1	111111	min	5 10 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	17 42 22 17	16 29 11 10	7 10 5 6	3 5 - 1	3 2 2	1		-	1 1 1 -	1111			1 2 -	5 - 3	12 - 5	4
Artillery Whitechapel Spitalitelds	6651 15844 15550 11434 7323 10381 9149	5 9 8 7 2 8 3	3 6 7 3 11 7 5	3 2 2 1 1 4 3	12 - 1	1		111111		1	1111111	111111	1,11111	2 - 1 2 - 3 2	1	1 - 1	- 4 - 8
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21856 8973	10 15 4	11 9 4	5 4 3	1	1 -	1	-	1.	1				4 1 1	-		111
Shadwell W	11623 15930 30025	7 14 25	10 6	3 5 2	ī -	- 2		-	-	-		-	11:	1 2 -	- 1	2	ī
Mile End Old Town West — — — — Mile End Old Town East WwH – — — — — — — — — — — — — — — — — — —	38126 55020 67777	25 52 69	12 26 32	6 8 14	1 4	2 4	-	-	-	1 -		1.	, I	3 4 2	1	1	3
Poplar WH South Districts.	48500	26	22	5	3	1	1	1	-	1	- 1	1	-	1	-	-	5 4
Christchurch Southwark W	14547 15667 20430 16694 18959 23673 48232 16786	10 12 13 7 14 14 31 13	12 6 16 12 8 7 21 4	2 5 3 4 4 9	3 2 1 - 1 2 -	1 - 2 - 1 4 -	1 2	2	1111111	111111	11111111	11111111	,1111111	1 1 1 1	1	3 1 - 2	2
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	5 10 10 42 23	14 6 10 6 21 12	1 3 1 6 2	3 2 1 3 1 2	- 2 - 3 -	11111	1		111111	ī 1	11111	111111	2 - 1 -	5 - 2 1	6 - 1 3 1	12 2 - 3 - 3
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 85831 41284 81213 85481 12584	9 13 12 32 25 22 30 9	8 9 3 18 19 9 26 4	5 4 1 9 10 2 3 2	1 4 3 2 2 -	17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 -	1	1		1111111		52 - 84	1	2 1	14
Clapham HL	27348 53988 19797 9438 14479	16 36 11 7 9	11 27 6 4 6	3 11 1 - 2	3 6 1 1	1 -		1 2 -	1111	1111	11111	1111	ī -	3 3	1	ī	8 3 -
Dulwich Camberwell WL†L† Peckham W St. George Camberwell	4041 31251 42159 33851	1 21 20 33	13 18 17	- 4 5 5	3 5 2	2		1111		riii	1111		- - 1	- 3 1	- 2 -	2 1	6 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	45 3 12 8	- 17 2 6 7	5 1 2 3	4	1 -	î -	- 1		1111	1	1		1 1 2	2 1	- 2 -	- 2
Eltham Lee Lee Lewisham Village W Sydenham	4528 16430. 11508 19016	3 2 8 10	6 3 1	- 1 2 1	2 -	1111		1111	riit	1111	1111	1111	1111	1111	1111		1111
Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead, West	9503 17229 18319 13028 15290	4 6 17 12 13	2 3 5 2 7	1 - 1 - 2	1	11111	11111	1	1	1	11111		ī - -	11111	- 2 -	- 2 - 1	11111

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.
The Strand

The Strand

Tottenham-court sub-district.

Jo. do,

J. Jislington East.

Hackney sub-district.

sub-district. Stepney - ,,
† Lunatic Asylums where paupers are admitted.

For Her Maiestv's Stationery Office.

[Under the Superintendence of the Astronomer Royal.]

TABLE W. - THE LOCK OLD GROUND COSTAINTED LOTES CARELLE TOTAL COSTAINT MACHINE CONTRACTORY WAS SECURED OF CHANGE

level of the sea. The reathings of the barousces were the developed by the level of the sea. The reathings of the brometer, the level society's flint glass standard barometer. The observations are taken at the dry the means of the readings of the barometer, the dry thermometer, and the wet thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Glasher, F.E.S., from five years' observations ending 1845, December 31...-562-Phil. Trans, part 1, 1848. The mean daily deep your dand degree of humidity are deduced from those mean daily values of the dry and deep point the mean daily values of the dry and she results deduced from the institute sees. The solvential desired to each. The average the self-registering thermomoters, the preper corrections being applied to each. The average temperature of the layer loservatory, dreamond, in the for years config 186, December 31, a far reading the JTth column it will be borne in mind that + is read "higher," and " doners," then the average. The results of all the meteorological observations are to be understood as The reading of the barometer at the beginning of the week was 29.52 in.; and it remained merly stationary at this reading till noon on the 24th, then decreased to 29.54th, by 9h. A.M. on the 25th; increased to 29.78in. by 9h. P.M. on the same day; decreased to 29.75in. by noon on the 26th; decreased to 29.77in. by 9h. P.M. on the 27th; decreased to 29.54in by 9h. A.M. for mean daily temperature of the air, or the numbers exhibited in column 7, include the from the side of these recognitions are registered under the super-The readings of these instruments are registered under the super-The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of about observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M., as well increased to 29.82 in. by 9h. P.M. on the same day; and decreased to 29.55 in. is 5 in. above the ground. 0.05 0.11 99.0 0.07 00.0 25 2 feet below the surface. The readings of these instruments are registered under intendence of the resident inspector on board the ship, by permission of Movement of Air Robinson's. Miles. 414 278 Sum 2332 24 of 24 Obs. Pressure on square foot As deduced from Anemometers. 23 : Least. 0.0 0.0 lbs. 0.0 0.0 22 Henderson, R.E., C.B., Commissioner of Metropolitan Police. 9.5 3.3 Greatlbs. 3.4 4.7 applying to the civil day, or from midnight to midnight. Osler's. WSW. WSW. &SW WSW. & SW. W.& WSW. of the barometer is SSW. SW. P. M. General Direction, WSW. WSW. & W. by N. Variable SSW. & WSW. WSW. WSW. SSW. A. M. 19 The height of the cistern tion being repre-sented by 100. 22 74 71 71 65 83 22 18 the same day on an average of 50 years.\* perature of the day and on the 28th; increase the end of the week, mean temperature of 0.8 0.1 20.1 17 ı 1 1+ 1 1 3.6 0.0 9.1 3.8 Least. Between Dew Point 16 Air Temperature Temperature and 15.7 16.9 23.1 15.5 0.5 17.5 17.2 15 est. 4h., and rain Fine generally till the evening. Overeast after 6h. r.w. Rain Il frequently between 4h. and 6h. r.w., and again from 1th. r.w. I miningth. Rain fell in the early morning hours, and heavy showers also fill during the day, accompanied by violent guiss of wind. Thunder was heard between 3h. P.M. and dh. P.M. Very variable. Mean value. 8.1 5.1 14 rain a few Overcast till 63.2 the Thames at Greenwich, by self-registering Thermometers. 0.99 64.2 64.0 63.6 63.8 64.2 Lowest A very variable day. Frequent heavy showers of Thunder was heard at noon, and lightning seen at night. 13 and A very fine day. Clouds began to gather about fell heavily between 4h. 80m. and 6h. 30m. The cleared off after 7h. P.M., and it became very fine. AND ATMOSPHERE. Highest. cloud varied. 6.29 67.0 6.99 66.8 66.4 6.99 01 12 . 49 Rain fell heavily in the early morning. Light clouds were prevalent afterwards. Lowest on the Grass, as Minimum Thermo-52.7 46.8 vd awods 45.0 52.0 meter. 48.7 Ħ 20. THERMOMETERS Generally fine; the amount of showers tell. Highest in the sun, as shown by Caself-regisplaced on the Grass. Thermo meter with 138.1 136.0 115.0 133.1 SKY Very fine throughout. 54.4 50.5 56.1 52.3 READINGS OF Dew Point. 6 52. 58.8 59.7 62.1 61.4 59.5 60.4 60.4 daily 00 13.4 15.5 6.41 0 18.2 in 7 fell 17. Dry. 54.1 52.0 52.8 53.4 51.9 6 Strong positive, and occasionally negative, with sparks and galvanic at Strong negative, with sparks and galvanic currents between 2h. and 3h. P.M. Positive, with variable tension, at other times. est. 9 Positive, with moderate tension. 53, sparks tension, 67.5 6.04 711.7 ELECTRICITY. 70.1 est. 143 Strong negative, with 29.255 29.263 29.621 Positive, with weak Mean daily reading 29.675 and re-32 degr. Fahren-heit). 493 29.515 29.470 4 'n. currents at noon. In Perigee MOON. 8 • of No. of Columns MONTH AND DAY. 24 25 25 28 23 25 53 WEDNESDAY 1871. THURSDAY. SATURDAY. JULY. MEANS DATE. JULY. TUESDAY THURSDAY SUNDAY FRIDAY SUNDAY FRIDAY

WEEKLY RETURN

# AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Anthocity of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LAND

No. 31. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, AUGUST 5.

General Register Office, Somerset House, 7th August 1871.

During the week ending Saturday the 5th instant, 4892 births and 3188 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week was at the rate of 23

deaths annually in every 1000 persons living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 22 per 1000; Portsmouth 15, Norwich 21, Bristol 24, Wolverhampton 18, Birmingham 18, Leicester 21, Nottingham 18, Liverpool 28, Manchester 28, Salford 24, Bradford 20, Leeds 23, Sheffield 23, Hull 23, Sunderland 38, and Newcastle-upon-Tyne 30. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had been 268 and 222, further declined last week to 169; of these 87 occurred in London, 9 in Liverpool, 17 in Manchester and Salford, 31 in Sunderland, and 17 in Newcastle-upon-Tyne; each of these numbers showed a further decline upon recent weeks, but the 31 in Sunderland was equal to an annual death-rate of 16 per 1000 persons living. The deaths from diarrhea, principally infantile, in these towns further rose to 402 last week, from 195 and 340 in the two previous; the annual death-rate from diarrhea last week was equal to 4 per 1000 in London and Liverpool, 6 in Manchester and Salford, 5 in Leeds and Leicester, and 3 per 1000 in Sheffield.

In Edinburgh the annual rate of mortality from all causes last week was 28 per

1000 persons living, in Glasgow 30 per 1000, and in Dublin 13.

In Paris 835 deaths were returned in the week ending 4th instant, and the annual death-rate was equal to 24 per 1000 of the estimated population. In Berlin during the week ending Thursday, 3d instant, 799 deaths (of which 107 were referred to small-pox, and 246 to infantile diarrhea) were recorded, showing an annual rate of 52 per 1000.

Dr. Zuelzer, of Berlin, furnishes further information respecting the western advance of Asiatic cholera. He states that it has now entered Germany. During the first three days of August 17 fatal cases occurred in Koenigsberg; the first case was of a Polish merchant who arrived at Koenigsberg from Wirballen. In Riga

75 deaths from cholera were reported between the 5th and 22d of July.

In the City of New York 857 deaths were registered in the week ending 15th ultimo, and the equivalent annual rate of mortality was 47 per 1000; the annual death-rate from diarrhoea in this city during the week was so high as 19 per 1000 persons living.

In Madras 257 deaths were registered in the week ending 16th June, showing

an annual death-rate equal to 31 per 1000 of the population.

In London 2076 BIRTHS and 1382 DEATHS were registered last week. After making due allowance for increase of population, the births were 93, and the deaths so many as 350, below the average numbers in the corresponding week of

the last ten years.

Zymotic diseases caused 446 deaths last week, including 87 from small-pox, 18 from measles, 24 from scarlet fever, 5 from diphtheria, 25 from whooping-cough, 20 from different forms of fever (of which 6 were certified as typhus, 10 as enteric or typhoid, and 4 as simple continued fever), and 225 from diarrhea; thus to the seven principal diseases of this class 404 deaths were referred last week, against 339 and 415 in the two preceding weeks. The fatal cases of diarrhea, which had been 110 and 201 in the two previous weeks, further rose to 225-last week; this number, however, was 72 below the average number from this complaint in the corresponding week of the ten years 1861-70, corrected for increase of population. Of these 225 deaths from diarrhea last week, 189 were of infants under one year of age. To cholera and choleraic diarrhea 18 deaths were referred last week, against 9 and 17 in the two previous weeks; three were of adults, and the rest of infants; the adult cases were all certified as "choleraic diarrhea," of a few days duration.

[31,7]

The mean temperature last week was again somewhat below the average, or probably a still larger fatality from diarrhead diseases would have been recorded.

The deaths from small-pox in London, which in the two previous weeks had been 135 and 122, further declined last week to 87, the lowest number returned in any week since the middle of December last. In six permanent and temporary hospitals for this disease 30 deaths were recorded last week, of which 19, 8, and 12 respectively occurred in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths, it appears that 14 belonged to the West group of Districts, 24 to the North, 8 to the Central, 15 to the East, and 26 to the South; these numbers showed the largest decrease in the East and South of of London. Three fatal cases each were returned last week in Somers Town, Kentish Town, and Bethnal Green Church sub-districts.

To different forms of violence 52 deaths were referred last week; of these 44 were caused by accident or negligence, including 15 by fractures and contusions, 6 from burns and scalds, 13 from drowning, and 9 from suffocation. Four of the deaths from fractures and contusions were caused by horses or vehicles in the streets; 2 were of young children, and 2 of persons aged 60 years and upwards. Two deaths from infanticide, and 6 from suicide were registered during the week.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.75 in.; the highest reading was 30.02 in. at the end of the week, and the lowest 29.48 in. on Sunday morning. The mean temperature of the air was 60°·3, or 2°·1 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature showed a slight excess on Wednesday and Thursday, but was below the average on every other day of the week; on Sunday, 30th ultimo, the mean was only 55°2 and 7°2 below the average, and on Thursday, the warmest day, it was 65°2; and 2°8 above the average. The highest day temperature in the shade was 80° 5 on Thursday, the lowest night temperature 46° 8 on Monday; the entire range of temperature in the week was, therefore, 33° 7. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 140°·5 on Wednesday. The difference between the mean dew-point temperature and air temperature averaged 10°·2. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 63° 9 last week. The mean degree of humidity of the air was 70, complete saturation being represented by 100. The general direction of the wind was S.W. and W.S.W., and the horizontal movement of the air in the week averaged 10 miles per hour. Rain fell on Sunday and Friday to the amount of · 23 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 56°·5 in Salford, to 59°·7 in Norwich; the lowest recorded night temperature was 43°·3 in Salford, and the highest day temperature in the shade 80°·2 in Leicester. Rain was measured last week in each of these towns, except Newcastle; the amounts varied from '01 of an inch in Sheffield to '41 in Birmingham.

In Centigrade degrees the mean temperature of the air last week at Greenwich was  $15^{\circ}\cdot7$ ; the highest day temperature in the shade was  $26^{\circ}\cdot9$ , the lowest night temperature  $8^{\circ}\cdot2$ , the highest temperature in the sun was  $60^{\circ}\cdot3$ . The mean temperature of the corresponding week in 50 years averaged  $16^{\circ}\cdot9$ , or  $1^{\circ}\cdot2$  above the temperature of last week. The wind blew at the rate of 16 kilometres an hour, and the rain-fall measured  $\cdot58$  of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 223,443 cubic metres, and at Barking 244,559 cubic metres, equiva-

lent to about as many tons by weight.

With reference to the average daily quantity of sewage pumped into the Thames at Crossness and Barking, which last week was about 468,002 tons, the following interesting note has been furnished by Mr. Robert Rawlinson, C.B., C.E., one of the most competent authorities on the subject:—"Chemists value this sewage at "2d. per ton. The farmer's value all the year round is set down by Messrs. Lawes "and Gilbert at  $\frac{1}{2}d$ . per ton. This means that above 1000l. worth of manure per "day is wasted; or a farmer's value of about 365,000l. a year. The waters of "the Thames being in the meantime indescribably fouled, and many acres of putrid mud-banks exposed betwixt high and low water each tide. In 20 years "365,000l. per annum would amount to 7,300,000l., exclusive of interest,"

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the THIRTY-FIRST Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1873
Total Births  Males . Females .	1677	1794	1941	1906	1828	1988	2264	2106	2130	2082	1971.6	2076
	898	928	1007	974	885	1049	1139	1078	1070	1016	1004.4	1040
	779	866	934	932	943	989	1125	1028	1060	1066	967.2	1036
TOTAL Deaths  Males  Females	1225	1209	1514	1595	1311	2661	1291	1665	1630	1648	1574·9	1382
	575	610	803	870	663	1321	653	859	824	863	804·1	723
	650	599	711	725	648	1340	638	806	806	785	770·8	659

Note.—The deaths of last week may be compared with the average of deaths in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	May 13.	May 20.	May 27.	June 3.	June 10.	June 17.	June 24.	July	July 8.	July 15.	July 22.	July 29.	Aug. 5.
Total Deaths	1341	1486	1401	1393	1437	1349	1296	1328	1200	1259	1281	1420	1382
Deaths under 5 years of age - Deaths 5—20	519 142	594 152	485 153	513 137	548 150	477 135	495 131	541 135	466 122	507 127	578 97	739 104	706 106
Deaths 20—40 Deaths 40—60 Deaths 60—80	232 189 213	260 214 207	270 227 217	242 236 223	271 218 219	257 229 204	248 196 189	238 215 165	199 190 185	202 182 197	200 212 164	203 159 177	177 - 188 165
Deaths at 80 years & upwards	46	45	49	42	31	47	37	34	38	44	30	38	40
Deaths from Small-pox Measles Scarlet Fever -	232 16 35	267	257 23 28	229 16 25	245 23 24	240 21 17	232 27 24	235 15 16	164 12 24	133 22 40	135 17 24	122 18 19	87 18 24
" " Diphtheria - " Whooping-cough	2 25	28 8 43	28 2 48	10 28	6 32	9 29	33	8 36	4 30	9 23	28	.8 22	5 25
" ,, Typhus fever - " ,, Enteric (or Ty-) phoid) fever -	9	18	8	10	4 12	13	6 9	11	8	10	5 9	9	6 10
" " SimpleContafever " " Diarrhœa " " Simple Cholera -	13 1	22 22	8 12	13 20 1	14 23 1	6 24	7 20 2	7 46 2	5 39 3	6 64 4	10 110 9	7 201 17	225 18
,, ,, Phthisis ,, Bronchitis ,, Pueumonia - ,, ,, Heart Disease -	154 108 50 71	170 100 62 53	154 95 52 57	148 81 58 64	188 93 62 68	151 90 60 68	131 82 48 55	147 82 38 52	165 59 44 68	148 68 37 48	144 59 40 56	149 48 52 49	152 68 40 65
Mean Temperature of the Air	47.6	50.1	56.7	53.9	49.9	59.5	56.2	56.6	60.5	61.7	65.5	60.4	60.3
Mean Temperature of the Water of the Thames	53.2	52.4	55 • 6	59.1	56.3	57.2	56.1	60.4	61.4	63.2	65 6	65.6	63.9
Humidity of the Air	76	73	72	77	76	85	84	73	7.6	78	75	75	70
Rain-fall in inches	0.12	0.16	0.22	0.10	0.31	1.05	1.50	0.05	0.87	1.21	0.02	0.66	0.23

Note.—The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Nozwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 5th day of August 1871, in the following large Towns.

						9	0				
CITIES	Area	Population estimated	Persons	Births registered	DEATHS registered		ATURE OF		THE AIR.	RAIN	FAL
BOROUGHS.  (Municipal Boundaries for all except LONDON.)	in Acres.	to the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 5th August 1871.	during the Week ending 5th August 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	Ce me
Total of 20 Towns in the United Kingdom -	213,281	7,204.001	33.8	4892	3188	80.2	43.3	58.1	14.50	0.18	0.
LONDON	77,997 9,513	3,263,872 113,450	41.8	2076	1382 33	80.2	46.8	60.3	15.72	0.23 0.21	0.
Norwich	7,472 4,688	80,533 183,298	10°8 39°1	42 118	33 . 83	79.0	46.0	59.7	15.39	0.01	0.
WOLVERHAMPTON -	3,387	68,476	20.2	, 68	23	75.4	44.9	57°2	14.00	0.08	0.
BIRMINGHAM LEICESTER	7,831 3,200	344,980 95,882	44·1 30·0	278 79	119 39	73.8 80.2	47°0 46°0	57°8 58°6	14°33 14°78	0°41 0°35	0.
NOTTINGHAM LIVERPOOL	1,996 5,108	86,929 494,649	43°6 96°8	76 <b>3</b> 78	30 263	77°4 72°7	45°5 52°2	58·3 58·5	14.61 14.72	0.10	0.
MANCHESTER	4,486 5,172	356,099 125,422	79°4 34°3	92	192 58	75.5	43.3	56.5	13.61	0.10	0.
BRADFORD LEEDS	6,590 21,572	146,987 260,657	22·3 12·1	117 196	56 ·	73°0 74°0	46.8	58.6 56.6	14.78 13.66	0.03	0:
SHEFFIELD	22,830 3,562	241,507 122,266	10.6 34.3	191 76	106	76.0	45.0	58.6	14.78	0.01	0.
SUNDERLAND	3,306	98,797	29*9	45	72			-		-	
NEWCASTLE-ON-TYNE EDINBURGH	5,336 4,427	128,677 201,728	24°1 45°6	107 140	74 108	69.0 69.0	47°0 44°0	56°7 57°2	13.72 14.00	0.10	0.
GLASGOW DUBLIN	5,063 9,745	479,227 310,565	94·7 31·9	353 138	272 75	68°5 73°4	46.5 46.8	57°2 60°4	14.00 15.78	0.13 0.13	2°

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by additional that of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs showed decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted above for that the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Weending Saturday the 5th day of August 1871.

			,,,,				8							
	ANNUAL				Th	e Deat	rus reg	istered	in the	Week in	iclude			
BOROUGHS, &c.  (Municipal Eoundaries for all except LONDON.)	MOR- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhea.	Violence.	Inquest Cases.	
Total of 17 Towns -	23	2733	1001	396	169	48	50	8	60	60	402	84	136	1 3
London	22	1382	502	205	87	18	24	5	25	20	225	52	78	2
PORTSMOUTH:	15	33	9	7	-	-	-	-	-	1	_	3	4	
Norwich	21	33	10	6	1	-	1 1	_		-	3	-	-	
BRISTOL	24	83	27	19	2	-	2	-	-	3	8	8	3	
WOLVERHAMPTON .	18	23	5	5	77	-	-	ines .	2		2	1	2	
BIRMINGHAM	18	119	42	17	1	4	-		8	3	9	l î	. 7	
LEICESTER	21	. 39	19	7	1	i	1	_	-	1	10	Î .	2	
NOTTINGHAM	18	- 30	14	1	2	1	-		-	-	7	× 10.00	-	
LIVERPOOL	28	263	98	38	9	9 1	6	-	13	9	36	_ 9	15	
MANCHESTER	28	192	74	22	12	2	5		-	3	40	5	10	
SALFORD	24	58	16	9	5	3	-	127	1	. 1	- 11	1	5	
BRADFORD	20	56	22	-8	·	-	1	-	2	2	3	-	-	
LEEDS	23	115	47	19	1	1	1		1	10	24	2	2	
SHEFFIELD	23	106	48	11	1	4	8	2	5	2	14	-	-	
HULL	23	55	22	8	1	2	-	-	-	3	4	3	3	
SUNDERLAND	. 38	72	27	7	.31		1	1	2	1	5	3	3	
NEWCASTLE-ON-TYNE -	80	74	19	.7	17	3	-	· ,= ·	1	1	1	1	2	
DUBLIN	13	75	ii	19	-	1	2	`	· ,i	3	2	2	4	-

TABLE 5 .- DEATHS in LONDON Registered in the THIRTY-FIRST Week of the Year 1871.

TABLE 5.—1	DATIIS	111 2			100	5130	CIC		the Imari-Frast Wee	L 01 11		ai .	101	*			
	of the st Week rs 1861-70.	Sa		he Way, A						f the Week 1861-70.	Sa	In the	he Way, A				
	s of the		Deat	ths of	Per Age	sons	of			rst W		Deat		f Per Age		of	
CAUSES OF DEATH.	Averages of Thirty-first V	ALL AGES.	Un 2	der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages of Thirty-first W	ALL AGES.	Und 20		r 40.	r 60.	r 80.	and
	Thu the	Mean			under	under	under	upwards.		Thi in the	Mean		_	nnder	repun l	nud	upwards.
Mean Temperature -	61.0	Tem.	0-5.	5-20.	20 and	40 and	60 and	ay Ve	Mean Temperature -	61.0	Tem.	0-5.	5-20.	20 and	40 and	60 and	wqu
ALL CAUSES	1574.9	1382	706		177	_				1.2	1					1	-
SPECIFIED CAUSES	1561.6	1377		106	3				9. Stricture of Intestines – 10. Fistula – – – – 11. Stomach Disease, &c. – 12. Pancreas Disease, &c. –	7.4	1 5	1 2	-	-	-	3	1. 6
I. ZYMOTIC DISEASES. ORDER 1.									13. Hepatitis	4.7 4.6 15.9	3 8 18	5	-	- 3	1 1 9	2 2 6	1-1-1
1. Small-pox	13.5 38.2	87 18	31 18	28	25 - 1	3.		۱	16. Spleen Disease, §c ORDER 5.	.3	-			-	_	-	
3. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy 6. Croup	60°9 8°2 °9	24 5 -	16 . 4	1	1		-	1 1 1	1. Nephritis	1.2	2 -	1 -			1	-	-
7. Whooping-cough	10.2	7 25 6	25 1	1	-	- 2		-	3. Bright's Disease (Nephria) 4. Diabetes	8'4 1'0 7	- 4 3 2	1 -	1	2 1 -	1	2	-
Enteric or Typhoid Fever - Simple continued Fever - 9. Erysipelas	6.3	10 4	5 3 1	3	2 1 - 2	2 1 - 2	- 1	- 1	6. Cystitis	8*3	5	ī	-	2	-	2	-
10. Puerperal Fever (Metria) 11. Carbunele	2.3	2		-	11.18	2 2	1		ORDER 6. 1. Ovarian Dropsy 2. Uterus Disease, &c	1°1 4°0	2	-	-	- 2	1 1	-	-
13. Dysentery	3·4 270·0 125·4	1 225 18	217 15	2	1	2 2	3	1	ORDER 7. 1. Synovitis (Arthritis) -		-			-	-	-	
17. Remittent Fever	1:3 5:1	-	-	- 2	- 2	-	- - 1	-	2. Joint Disease, &c ORDER 8.	6.0	8		4	2	1	_	
19. Other Zymotic Diseases - ORDER 2. 1. Syphilis		1	11		- 2	1	_	-	1. Phlegmon	1.1	2 2 -	E		1 -	-	1 -	-
2. Stricture of Urethra 3. Hydrophobia 4. Glanders	8.1 1.1 8.1	13	-	-		-	1.1.1.1	-	IV. DEVELOPMENTAL DISEASES.								
ORDER 3.	1	1	-	-	-	1	-		ORDER 1. 1. Premature Birth	22.0	17	17	_	_			-
2. Want of Breast-milk 3. Purpura and Scurvy 4. Alco-ya Del. Tremens	16.7 1.2 2.7	13	13	1.1.1	-	-		-	2. Cyanosis	3.0	- 8	3 -	, =	-	-	-	-
ORDER 4.  1. Thrush	1'7	1	-	_	-	1		-	5. Teething ORDER 2.	15.2	17	17	-	-	-	-	-
2. Worms, &c	6.4	4	4	=	-	-	=	_	1. Paramenia 2. Childbirth (see Puerperal) Fever)	6·4	1 5	-	-	8	2	-	_
1. Gout	2.1	3			-	2	1	-	ORDER 3.	42.4	44		_	_	_	18	26
2. Dropsy	13.8	8 35 3	1 1 3	1 -	3	20	1 2 11	2 -	ORDER 4.  1. Atrophy and Debility -	58.4	74	69	1	-	1	3	_
ORDER 2.	4.0	7	-	_	-	-	6	ī	V. VIOLENT DEATHS, &c.			-					
2. Tabes Mesenterica 3. Phthisis 4. Hydrocephalus	9°0 31°8 150°4	13 28 152	8 28 13	18	68	46	7	-	ORDER 1. (ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions								
III. LOCAL DISEASES.	28.2	26	22	3	1	-	-	-	2. Wounds	18:5 •7 4:0	15	2 - 6	2 -	4	4	3 -	-
ORDER 1. 1. Cephalitis	12.7	16	11	3	1 2	1 10	-	-	4. Poison	8.6 4.3	13 9	1 8	6	3	3	-	-
3. Paralysis	24.5	34 11 -	6 -	-	-	4	7 -	4 -	7. Otherwise ORDER 3.	3.2	9	-	_	1	-	-7	-
6. Epilepsy 7. Convulsions	5°6 43°4	37	36	1 1 2	3	-	-	-	(HOMICIDE.)  1. Murder and Manslaughter	1.9	2	2	_	_	_		
8. Brain Disease, &c ORDER 2. 1. Pericarditis	16'8	17	2	2	1	3	9		ORDER 4. (SUICIDE.)		-					_	
2. Aneurism 3. Heart Disease, &c	1.9	1 3 65	=	5	13	1 25	20	2	1. Wounds {Gunshot - Cut, Stab -	1.1	ī	=	-	-	1	-	-
ORDER 3.  1. Laryngitis		4 68	2 31	-	- 2	1 13	1 20	- 2	3. Drowning	1·1 1·2 1·1 1·8	1 1 2 1	-	=	1 2	-	-	-
5. Asthma	39*2	4 40 2 7	22	-	2 4	6	6 2 1	-	5. Otherwise ORDER 5.	.3	1	-	_	_	1	-	
6. Lung Disease, &c ORDER 4.  1. Gastritis	8.6	7	4	-	-	1	1		(EXECUTION.) 1. Hanging	•2	-	_		-	_	-	-
1. Gastritis – – – – – – – – – – – – – – – – – – –	9*3	10	1 4 1	2	2 2	2 1 1	2	-	Violent Deaths (not classed)	*3	-	-	-	-	~	-	-
4. Ascites — — — — 5. Ulceration of Intestines — 6. Hernia — — — — 7. Ileus — — — — — — — — — — — — — — — — — — —	2.7 2.3 2.7 4.1	6 3 6 1 4	=		1 2 -	1 2	1 2 - 2		Sudden Deaths (Cause un-) ascertained)	2.5		-	-	-	-	-	F
8. Intussusception -	4*1	-	-	-	-	-	2	-	Causes not specified or ill- a defined	10.8	5	8	-	1	-	1	

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarler during the Week ending

												du	ring	the	w ee	k en	ding
		during	during				The :	DEAT	as reg	gistere	d in 1	he W	eek in	clude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con-	Diarrhæs.	Violence.	Inquest Cases,	In Public Insti-
LONDON	3,251,804	2076	1382	502	205	87	18	24	5	25	6	10	4	225	52	78	23
WEST DISTRICTS	561,189 751,668 333,887 638,928 966,132	339 461 180 442 654	204 345 140 289 404	80 104 50 122 148	59 16 43 56	4 46 2 9 26	4 1 2 4 7	8 7 2 2 5	3 2	6 7 8 5 4	1 2 2 2	2 5 1 2 2	1 - 3	30 53 23 61 58	4 9 4 11 24	8 12 5 22 31	25 85 33 36 55
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H	#8702 88082 91583 28851 6862 36030 23378 26419 23278 21389 18700 13020 £8043 88470 27640 10453 10279 17555	35 18 57 16 1 31 18 21 14 12 4 4 4 5 5 7 15 6 9 9	21 18 33 7 5 12 9 12 6 9 4 24 16 13 2 4 1	11 5 12 4 2 7 6 5 5 2 2 5 6 5 1	3841112111512	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	1144		211			1	4133134 322 11132 111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 - 1 - 1 - 1 - 1 - 1	22 3 -1 1 
NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square Rectory Marylebone WH - St. Mary Marylebone H Christchurch Marylebone St. John Marylebone St. John Marylebone Christchurch Marylebone	28574 1.6419 26387 21795 38892 38892 38892 38271 28192 21396 2.9216 28592 18666 68198 9810 11.6948 9810 6399 28076 50037 30305	12 4 16 17 20 14 16 24 19 11 23 14 49 64 82 5 6 18 28 19	16 6 21 7 23 10 29 13 10 14 15 12 36 50 1 37 25 11	3 1 5 1 3 3 5 4 5 5 7 9 17 13 14 3	288228 1 182145 58 1181	1 - - 1 1 19 1 - 2 3 1 3 1 - - - - - - - - - - - - - - - -		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE CONTRACTOR OF THE PERSON O	12 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4	inite it with a figure	H1990   H 202234 50     193	3,1	1 1 32 1 1 1 1	8 10 
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH St. Giles North Long Aere Long Aere Charing Cross WH St. Mary-le-Strand St. Clement Danes H St. George-the-Martyr HIHH St. Andrew East Holborn W Saffron Hill St. James Clerkenwell Anwell Clerkenwell Pentonville Goswell-street Oid-street Oid-street City-road WHHL Whitecross-street Finsbury St. Scholph East London HH Cripplegate St. Sepulchre St. Sepulchre St. Sepulchre Castle Baynard Christchurch Queenhithe Allhallows Barking Broad Street	17843 19049 16197 11323 9831 9776 10711 20521 18012 1828 9001 1828 16229 11356 1829 11379 10702 11444 13689 7562 11484 4389 6308 4744 5694 7689	27 66 11 27 4 18 5 3 14 10 10 11 16 7 22 6 8 9 3 2 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 8 6 2 5 2 7 7 13 2 10 2 2 5 8 7 7 7 9 3 6 6 18 2 2 2 2 2	124 11 1 466133216626641	2 3 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1		1		of of the trickly but our our		1	1	CITITION OF THE CONTRACTOR	110 1111 38 111 2 1 31 1 1 1 2 2 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 3 3 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1	3 5 6 2 2 - 1 1 1 1 1 2 1

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 263

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 5th August 1871.

Saturday, 5th August 1871.	1																,
	77	during	during				The D	EATH	s regis	stered	in the	Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	rated Popu- lation, 1871.	Total Brarns du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.									1								
Holywell Shoreditch St. Leonard Shoreditch HLt Hoxton New Town Hoxton Old Town Haggerstone West W Haggerstone East	12429 16545 27832 26944 24453 19257	6 9 22 19 21 11	5 6 14 10 8 6	2 5 7 4 6 3	1 3 2 1	111111		111111		1	11111	11111	111111	2 4 5 4 1	111111	111111	2 3 -
Hackney-road	29808 42443 26574 21375	26 33 14 16	13 17 15 7	10 7 5 8	4 2 1	1 3 1		-	11.5	1 -	1111	-	1111,	4 2 3 1	1 -	1 4 -	1 -
Artillery Whitechapel	6651 15844 15550 114.4 7323 10381 9149	2 10 9 3 9 6 3	4 9 11 5 9 4 6	3 4 3 3 3 2 2	1 2 - 1 -	111111	1			111111	1111111	111111	111111	2 2 2 1 2 1 2		1 - 1	7 6 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	12 16 3	20 5 8	6 3 -	- 1 5	-	2 -	1 -	=	1 -	1	-	-	3 2 -		- 1	- - 5
Shadwell W	11623 1/93) 30025	9 7 17	5 5 10	1 1 4	1 - 1	-	=	-	-	1 -	-	-	-	1 2 1	- 2	- 3	
Mile End Old Town West Mile End Old Town East WwH -	38126 55020	26 46	18 19	7 6	5 3	2	-	-	-	-	-	-	-	4	1 -	1 -	6
Bow WwHL†	67777 48500	49 38	29 21	13 9	5 2	2 -	1	_	-	-	1 ~	-	-	1 5	2 4	2 6	5
SOUTH DISTRICTS.  Christehurch Southwark W St. Saviour Southwark H Kent-road Borough-road WH London-road L Trinity Newington St. Peter Walworth W St. Mary Newington H	14547 15667 20450 16694 18959 23678 48282 16786	9 8 12 8 13 15 36 12	9 4 5 5 8 12 18 6	2 2 1 3 3 7 6 3	2 - 1 2 - 2 -	2 - 1 2 - 2 2	1 - 1	1	111111	1 - 1	1111111	1111111	2	1 1 - 3 - 2 2 2 2	1	1	
St. Olave Southwark II	4157 10595 16785 15707 47921 22873	1 6 11 8 30 20	14 5 10 9 22 13	- 2 6 6 9 2	4 - 4 3	1	1	11111	111111	11111	1 1 1	11111	111111	2 1 3 5 1	3 - 1 5	3 - 1 5	12 4 - - 4
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 35831 41284 31213 3:431 12534	5 17 17 28 25 17 25 10	10 9 10 16 8 12 26	7 4 5 8 2 4 5	1 3 2 2 1	1 - 1 - 18 - 18 -	1 1 1 1	1 1 1 1 -	111111	11111111	1111111	1	TITLITE.	4 2 3 2 - 1	2 1 - 1	1 1 1	1 - 3 - 14 -
Clapham HL	27348 53188 19797 9438 14179	19 52 14 4 5	13 23 10 1 2	10 2 - 1	4 2 3 -	- 2 1 -	11111	1	11111	11111	-	11411		1 - 1	2 1 -	1 2 1 1	24 -
Dulwich	4941 31251 42159 33851	18 35 26	2 11 18 19	- 2 5 7	1 6 5	- - 2	1		1 1 -	1111	1111			- 3 4	- 1	1 1 1	6 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WII	53696 6487 21098 19320	41 4 12 13	22 1 4 10	11 3 2	2 - 1 4	-	ī - -		1 1 1 1		1111			5 - 2	1 -	2 -	
Eltham Lee Lewisham Village W Sydenham	4528 16430 11508 19016	3 8 5 11	- 4 6 6	2 2	- 2 1 -	-			1111		1111	1	-	1111	- 1 -	- 1	=
Charlton H Woolwich Dockyard Woolwich Arsenal H	9503 17229 15319 13 28 1 280	5 12 11 8 15	4 2 7 3 5	2 2 2 1	1 1 1 1		11111				1 1 1 1	11111		1 1	1 2	1 - 2 1 1	11111
Plumstead East	1 280	15	5	1	-	-	-	-	-	-	-	-	-	1	-	1	-

The following are Outlying Workhouses (indicated in the Tables by w):

Holborn Workhouse is in Hoxton New Town sub-district.

London City , , , , Mile End Old Town Eastern sub-dist, and
Bow sub-district.

Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL UBSERVATORY, GREENWICH, during the Week ending Saturday, 5th August, 1871. Under the Superintendence of the Astronomer Ronal.

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		Robinson's.	Amount of	Movement of Air each day.	Miles.	192	201	290 260 260	Sum 1634	24		feet abo	s are take le barome converte sher, F.R. 1848. Th	values of edition.	; and 9h ters, as de to each.	ermomet ling 1863, vigher," a	nse of se	snip, at e register rmission	beginning of the week to by 9h. A.M. on the 1st of sed to 30.02 in. by the end,
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WIND.	from Ar		Pressure on square foot.	Great-	lbs.	0.3	0.3	2.8	1:	21		nsider	The rest at the ced by	those	M.; no	laisher n the nd tha	ght.	seo pro ese rus rd the in Poli	9.55 in ed to 3d; an
	As deduced from Anemometers.	Osler's.		P, M.	SW.	WSW.&	SWESSW SSW.&S.	S. & SS W. WNW. & WSW. & SW.	WSW.	20	NOTES.	meter is conceper a	indard barometer. The observations are intlen at 9h, $\lambda_{AL}$ ; the means of the readings of the barometer, the dry mater, observed at these times, are converted into mean corrections deduced by James Galsien, F.K.S., from five comber 31.—See $Pikl$ , $I'rans$ , part 1, 1848. The mean daily	cluced from Evgrometric	ad at 9h. A um and m	d by Mr. G reenwich, i sorne in mi	mereorory ht to midu Thames 18	ings of the true of the true on board.	sed from 2 ly; increas M. on the
			General Direction.	A.M.	SSW. &	SW. &		SSE. & ENE. SSW. & WSW. W. W. W.	SW.&	19		The height of the cistern of the baronieter is considered to be 153 feet above the mean rel of the sea. The readings of the baronieter are considered to be coincident with those	of the Boyal Society's finit glass standard barometer. The observations are taken at 9h. A.K. mont, 3h. Fa.k.; and 9h. F.M. The means of the readings of the barometer, the dry theirmometer, and the wet theremometer, observed at these times, are converted into mean their north standard of orevections deduced by James Glasher, F.K.S., from five wents' observations ending 183, December 31.—See Phil. Trans., part 1, 184s. The mean daily venus' observations ending 183, December 31.—See Phil. Trans.	dew point and degree of humidity are deduced from those mean daily values of the dry and were built htermometers by Glashers' Hyprometrical Tables, Fourth edition. The results for mean daily temperature of the air or the number exhibited in column 1, include the	observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. as the results deduced from the maximum and minimum thermometers, as do the self-remixering thermometers, the proper corrections being applied to each	emperature of the air is that determined by Mr. Glisher from the thermometrical observa- tions taken at the Royal Observatory, Greenwitch, into 50 years ending 1843, December 31. *In reading the ITth column (twill be borne in mind that+is read "kigher," and ""foner,"	and the state of the state of the measurement of the understand by the up of all acression as applying to the civil day, or from midnight to midnight to midnight.  The temperature of the water of the Thames is ascertained by the use of self-registering	rhermometers, susponded from the state of the "See "pton". Fonce Sup, at the uepth of about 2 feet below the surface. The readings of these instruments are reg stered under the superintendence of the resident inspect, no board the ship, by permission of LieutCo. Henderson, R.E., C.B., Commissioner of Metropolitan Police.	The reading of the barometer decreased from 29.55 in. at the beginning of the week to 29.48 in. by 10h. A.M. on the 80th of July; increased to 29.94 in. by 9h. A.M. on the 1st of August; decreased to 29.52 in. by 9h. P.M. on the 3d; and increased to 89.02 in. by the end of the week.
Degree	of Hu- midity,	complete Satura.	being repre-	sented by 100.	83	92	68	12 22 22 22 22 22 22 22 22 22 22 22 22 2	70	18		cistern e readin	d 9h. P.	e of hum	fry theresed from	ir is tha	day, or f	ended from surfacture the resident the resident 3 Company	e baron on the
	1		mean tem-	the same day on an average of 50 years.*	100	- 1.7		+     8	- 2.1	17		The height of the level of the sea. The	of the Royal Society's firit glass moon; 3h. P.M.; and 9h. P.M. flhermometer, and the wet there daily values by the application verts' observations ending 1845, 7	and degree thermomet	sults deductive t	ire of the a in at the R ling the 17t	applying to the civil	sters, suspenet below the ndence of n. R.E., C.1	ding of the oy 10h. A.M. decreased tak.
DIFFERENCE	Point	re	ure	Least.	0:0	0.0	2.1	2.1	6.0	16		he hei	he Roy n; 3h rmome ly valu rs' obs	point bulb	ervatio	peratus s take In read	lying the ten	rmome ut 2 fe erinte nderso	The readi 29.48 in. by August; de of the week.
DIE!	Between Dew Point	Funperature	Air Temperature	Great-	13.7	20.7	19.9	25.5 19.4 20.4	20.3	15		leve		dev	obs as the		app		
	Between	(Pd)	Vinen	daily yalue.	0.0	7.00	10.8	16.4 8.8 8.9	10.5	14			ing and yarjable		•	l night		nt; then	at other
1.		the Water of	stering	Lowest	63.0	59.4	57.6	63.6	61.8	13			the morr d. Very			present till night;	Fine.	n fell about 5h. A.M., Variable tifl night;	Variable at other
		In the Water of	self-registering Thermometers.	lighest, Lowest.	66.4	64.0	65.6	66.6 67.2 67.0	0.99	12	HERE		ently in usty win	ď.		was		in fell at Variable	
FERS.	Lowest	Grass, as	a self- register-	Minimum Thermo- meter.	46.8	41.0	44.0	41.0 47.8 39.2	43.0	11	AND ATMOSPHERE.		fell frequ	s prevaile	i i i i	little cloud	cloud pre	A.M. Rain fell 4h. F.M. Varia	ch. and 7h. F.M.
Thermometers.	Highest in	shown by	Thermo-	bu bin vacuo, placed on the Grass.	131.5			189.7 128.5 185.5	134.7	10	SKY AND A		heavy showers of rain fell frequently in the morning and fermon, accompanied by strong gusty wind. Very variable evening. Fine night.	Light clouds prevailed	generally cloudless at night.	4	amounts of light cloud prevalent.	10h. and	rally cloudy between 2
		Point.	Mean	daily	50.0	52.9	50.1	48.8 48.8 50.7	50.1	6	S		y showe on, acce ag. Fi		erally c	fine throughout.	l amou	Generally overcast till asin between 3h. 20m. nerally cloudless.	eloudy
READINGS OF			Mean	daily	55.2	2.09	6.79	65.2 57.6 59.6	8.09	00			ry heavy sh afternoon, e evening.	A very fine day.	Fine: gen	ry fine general	ry small	herally betwee	
-			Range	day.	17.3	28.1	25.0	20.8 20.3 27.4	25.8	-1		,	Very early af till the	A W		Very then ge	Very	General general	Grae times.
1		Dry.		est.	50.0	46.8	49.9	49.7 50.7 46.9	48.8	9			~~				sion,		
1.				68t.	67.3	74.9	74.9	71.0	9.42	2	ITAX.	dia.	shown.		rell		eak ter		
Вако-	Мекш	reading		32 degr. Fabren heit).	in.	198.67	29.904	29.552 29.625 29.972	29.747	4	ELECTRICITY	1	city was				with w	-	
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		1871.	TH AND DAY.		July.		AUGUST.	URSDAY.	ANS	of Columns.	UE.	Y.			ssT.				•
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Printed by GRORGE B. EYER and WILLIAM SPOTFISMOODE Printers to the Organic most Freedlant Mainate. For the Main

# WEEKLY RETURN

#### AND DEATHS BIRTHS IN AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Anthority of the Registrac General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 32. 1871. Vol. XXXII. WEEK ENDING SATURDAY, AUGUST 12. Price 1d.

> General Register Office, Somerset House, 14th August 1871.

DURING the week ending Saturday the 12th instant, 4696 births and 3596 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week in these towns was at the

rate of 26 deaths annually in every 1000 persons living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, in the order of their topographical arrangement, were as follow:—London 25 per 1000; Portsmouth 19, Norwich 21, Bristol 20, Wolverhampton 9, Birmingham 20, Leicester 29, Nottingham 26, Liverpool 30, Manchester 34, Salford 31, Bradford 21, Leeds 29, Sheffield 33, Hull 17, Sunderland 51, and Newcastle-upon-Tyne 39. The fatal cases of small-pox in these seventeen towns, which in the three previous weeks had been 268, 222, and 169, rose again last week to 210; of these 96 occurred in London, 6 in Liverpool, 14 in Manchester and Salford, 34 in Newcastle-upon-Tyne, and no less than 52 in Sunderland; the numbers in the two latter towns showed a large increase upon the previous week, and were equal to an annual death-rate of 14 and 27 per 1000 persons living, respectively. The deaths from diarrhea, principally infantile, in these towns further rose from 195, 340, and 402 in the three preceding weeks to 575 last week; the annual death-rate from diarrheea last week was equal to 5 per 1000 in London, 7 in Manchester and Salford, 6 in Liverpool, Sheffield, and Nottingham, 8 in Leeds, 4 in Bristol, and 12 in Leicester.

In Edinburgh the annual rate of mortality from all causes last week was 21 per

1000 persons living, in Glasgow 32 per 1000, and in Dublin 16.

In Paris 676 deaths were returned in the week ending 11th instant, and the annual death-rate was so low as 17 per 1000 of the estimated population. In Brussels 81 deaths occurred in the week ending 5th instant, and the annual deathrate was 23 per 1000. In Berlin during the week ending 10th instant, 772 deaths were recorded (including 118 from small-pox, and 207 from infantile diarrhea), showing an annual rate of 50 per 1000. In Vienna the 290 deaths in the week

ending 5th instant gave an annual rate not exceeding 24 per 1000.

Rome now furnishes her quota to the International Vital Statistics of the large cities of Europe. Since the beginning of last May valuable Weekly Returns of the births, deaths, and meteorology of that city have been published under the signature of Signor Silvagni, the Superintendent of Roman Statistics, and copies have been forwarded to this country. The population of Rome at the last Census was returned at 226,022 persons. A new census of the Italian Kingdom is to be taken on 31st December next, but in the meantime, on the authority of the Roman Statistical Department, the population of the city is estimated at 225,000. During the nine weeks ending 2d July last, the annual rate of mortality in the city was equal to 27 per 1000 of this population; in the four weeks ending 30th July the death-rate had increased to 34 per 1000.

In the City of New York 654 deaths were registered in the week ending 22d ultimo, of which 261 were referred to diarrheal diseases; the equivalent

annual rate of mortality was 36 per 1000.

In Bombay the deaths registered during the week ending 18th ultimo were 292, and the mortality was at the annual rate of 19 per 1000. In Madras 263 deaths were registered in the week ending 23d June, showing an annual death-rate equal to 32 per 1000 of the population.

In London 2057 BIRTHS and 1568 DEATHS were registered last week. After making due allowance for increase of population, the births were 106, and the deaths

56, below the average numbers in the corresponding week of the last ten years.

Zymotic diseases caused 564 deaths last week, including 96 from small-pox,
28 from measles, 30 from scarlet fever, 5 from diphtheria, 41 from whooping-cough, 26 from different forms of fever (of which 6 were certified as typhus, 13 as enteric or typhoid, and 7 as simple continued fever), and 299 from diarrhoa; thus to the

seven principal diseases of this class 525 deaths were referred last week, against 415 and 404 in the two preceding weeks. The fatal cases of diarrhoa, which in the three previous weeks had been 110, 201, and 225, further rose last week to 299, exceeding by 50 the average number of fatal cases returned in the corresponding week of the ten years 1861–70, after correction for increase of population; this increase, however, was scarcely so large as might have been expected from the excessive temperature which prevailed. These 299 deaths from diarrhoa last week included 234 of infants under one year of age, 34 aged one year, and but 31 of children and adults aged above one year. To cholera and choleraic diarrhoa 15 deaths were referred last week, against 17 and 18 in the two preceding weeks; 13 were of infants not exceeding one year, and two were of adult females, both certified as "choleraic diarrhoa."

The deaths from small-pox in London, which in the six previous weeks had declined from 235 to 87, slightly increased again last week to 96; of these, 41 occurred in five temporary hospitals for this disease, including 16, 13, and 10 respectively in the institutions at Hampstead, Homerton, and Stockwell. After distributing these deaths, it appears that 5 belonged to the West group of Districts, 29 to the North, 4 to the Central, 28 to the East, and 30 to the South; these numbers showed an increase in the North, South, and East of London. Six fatal cases were returned last week in Islington, and three each in Kentish Town, Bethnal Green, Aldgate, and Battersea sub-districts.

To different forms of violence 49 deaths were referred last week; of these 37 were caused by accident or negligence, including 9 by fractures and contusions, 3 from burns and scalds, 13 from drowning, 8 from suffocation (all of infants), and one from poison. Two of the deaths from fractures and contusions were caused by the deceased being run over in the streets. Two deaths of children, aged 4 years, were referred to "sunstroke." Five cases of murder or manslaughter, and 5 of suicide were registered last week.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.98 in.; the highest reading was 30.89 in. at 9 P.M. on Sunday, and the lowest 29.88 in, at the end of the week. The mean temperature of the air was 68°·3, or 6°·2 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature showed an excess on each day of the week; on Monday the mean was 64°·7, and 2°·7 above the average; while a larger excess was shown on each of the other days and on Saturday the mean was so high as 72° 4, or 10° 4 above the average. This was the hottest day of the year, the nearest approach to it being 69°1 on Sunday, 16th July. The highest day temperature in the shade was 88° 2 on Saturday; the lowest night temperature 51°.9 on Wednesday; the entire range of temperature in the week was, therefore, 36°·3. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 146°·5 on Saturday. The difference between the mean dew-point temperature and air temperature averaged 11° · 2. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 66° 4 last week. The mean degree of humidity of the air was 68, complete saturation being represented by 100. The general direction of the wind was E. and N.E., and the horizontal movement of the air in the week averaged 5 miles per hour. No rain fell during the week.

The mean temperature of the week in the other large English towns furnishing

The mean temperature of the week in the other large English towns furnishing returns ranged from 64°·3 in Hull, to 67°·8 in Leicester; the lowest recorded night temperature was 47°·0 in Hull, and the highest day temperature in the shade 88°·7 in Leicester. No rain was measured during the week in any of the towns furnishing returns, except in Birmingham, where it only amounted to the

hundredth of an inch.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 20°·17; the highest day temperature in the shade was 31°·22, the lowest night temperature 11°·06, the highest temperature in the sun was 45°·83. The mean temperature of the corresponding week in 50 years averaged 16°·72, or 3°·45 below the temperature of last week. The wind blew at the rate of 8 kilometres an hour.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 207,246 cubic metres, and at Barking 254,714 cubic metres, equivalent to about as many tons by weight.

CABLE 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the THIRTY-SECOND Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1871
Total Births Males Females .	1759	1757	1772	1962	2042	1971	2087	2025	2227	2066	1966·8	2057
	881	883	919	1014	1065	1021	1053	1065	1168	991	1006·0	1055
	878	874	853	948	977	950	1034	960	1059	1075	960·8	1002
TOTAL Deaths Males Females .	1172	1181	1402	1433	1374	2299	1274	1545	1591	1494	1476·5	- 1568
	601	634	728	733	702	1131	667	795	822	755	756·8	- 805
	571	547	674	700	672	1168	607	750	769	739	719·7	- 763

Note.—The deaths of last week may be compared with the average of deaths in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	May 20.	May 27.	June 3.	June 10.	June 17.	June 24.	July 1.	July 8.	July 15.	July 22.	July 29.	Aug.	Aug. 12.
TOTAL Deaths	1486	1401	1393	1437	1349	1296	1328	1200	1259	1281	1420	1382	1568
Deaths under 5 years of age - Deaths 5—20	594 152	485 153	513 137	548 150	477 135	495 131	541 135	466 122	507 127	578 97	739 104	706 106	825 125
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	260 214 207 45	270 227 217 49	242 236 223 42	271 218 219 31	257 229 204 47	248 196 189 37	238 215 165 .34	199 190 185 38	202 182 197 44	200 212 164 30	203 159 177 38	177 188 165 40	192 193 193 40
Deaths from Smallpox	267 11 28 8 43	257 23 28 2 48	229 16 25 10 28 10	245 23 34 6 32 4	240 21 17 9 29	232 27 24 3 33	235 15 16 8 36 4	164 12 24 4 30 8	133 22 40 9 23	135 17 24 1 28 5	122 18 19 8 22	87 18 24 5 25 6	96 28 30 5 41
", Enteric (or Ty-) phoid) fever - } ", Simple Conta fever ", Diarrhea - Simple Chalors	18 7 22 2	8 8 12	20 13 20 1	12 14 23	13 6 24	9 7 20 2	11 7 46 2	4 5 39	10 6 64 4	9 10 110 9	9 7 201 17	10 4 225 18	13 7 299 15
", Phthisis ", Bronchitis ", Preumonia - ", Heart Disease -	170 100 62 53	154 95 52 57	148 81 58 64	188 93 62 68	151 90 60 68	131 82 48 55	147 82 38 52	165 59 44 68	148 68 37 48	144 59 40 56	149 48 52 49	152 68 40 65	147 51 34 62
Mean Temperature of the Air	50.1	56.7	53.9	49.9	59.5	56.2	56.6	60.5	61.7	65.5	60.4	60.3	68.3
Mean Temperature of the Water of the Thames -	52.4	55.6	59-1	56•3	57.2	56-1	60.4	61.4	63.2	65*6	65.6	63.9	66.4
Humidity of the Air	73	72	77	76	85	84	73	76	78	75	75	70	68
Rain-fall in inches	0.16	0.22	0.10	0.31	1.05	1.50	0.05	0.87	1.21	0.05	0.66	0.23	0.00

Note.—The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the \$12th day of August 1871, in the following large Towns.

	ş	The day o	1 11454	St 10/1, III	the remov	1118 1111	80 2011	1100			
CITIES	Area `	POPULATION estimated	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE	THE AIR.	THE AIR.	RAIN	FALL.
BOROUGHS.  (Municipal Boundaries for all except LONDON.)	in Acres.	to the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 12th Aug. 1871.	during the Week ending 12th Aug. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Centi metre
Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	4696	3596	88.7	47.0	66.2	19.00	0.00	0.00
LONDON	77,997	3,263,872	41.8	2057	1568	88*2	51.9	68.3	20.17	0.00	0.00
PORTSMOUTH	9,513	113,450	11.9	. 72 .	42	84 0	49.0	65°1	18.39	0.00	0.00
Norwich	7,472	80,533	10.8	47	. 32	86.2	51.8	65°4	18.26	0,00	0.00
BRISTOL	4,688	183,298	39.1	106	70	. —	,			-	Frank
WOLVERHAMPTON -	3,387	68,476	20.2	65	/ 12	84.8	50.3	66*4	19°11	0.00	0.00
BIRMINGHAM -	7,831	344,980	44'1	250	129	84°8	50.5	65.9	18.83	0:01	0.08
LEICESTER	3,200	95,882	30.0	60	54	88*7	52.5	67.8	19.89	0.00	0.00
NOTTINGHAM	1,996	86,929	43.6	49	44	85.7	52*8	66*6	19:22	0.00	0.00
LIVERPOOL	5,108	494,649	96.8	323	283	82°5	53°6	66.2	19.17	0.00	0.00
MANCHESTER	4,486	356,099	79.4	233	229		-	-	-	-	-
SALFORD	5,172	125,422	34*3	95	74	85°6	50.2	67.2	19.56	0.00	0.00
BRADFORD	6,590	146,987	22-3	114	59	84.0	53°0	67.4	19.67	0.00	0.00
LEEDS	21,572	260,657	12.1	220	143	86.0	51.0	66.1	18.94	0.00	0.00
SHEFFIELD	22,830	241,507	10.6	161	154	84.0	50°5	66.7	19.28	0.00	0.00
HULL	3,562	122,266	34.3	77	39	84.0	47.0	64.3	17.94	0.00	0.00
SUNDERLAND	3,306	- 98,797	29.9	90	97				-,	_	-
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	107	96	80.0	54°0	66.3	19.06	0.00	0.00
EDINBURGH	4,427	201,728	45.6	112	80	79.7	49°0	64.8	18*22	0.00	0.00
GLASGOW	5,063	479,227	94.7	313	296	76.3	51.3	64.1	17.83	0.00	0.00
DUBLIN	9,745	310,565	31.9	145	95	81.9	49°5	65.7	18.72	0.00	0.00
									7	1	1

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by addit 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs show a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that cit the population being assumed to be now stationary.

-Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Wee ending Saturday the 12th day of August 1871.

			_										_	
	ANNUAL RATE				The	e DEAT	Hs regi	stered i	in the V	Week in	clude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public
Total of 17 Towns -	26	3125	1217	431	210	56	62	6	78	65	575	100	147	41
LONDON	25	1568	584	231	96	28	30	5	41	26	299	49	79	28
PORTSMOUTH	19	42	11	3	1	1	-	-	5	_	4	4	5	
Norwich	21	32	9	11	-	-	-	-	-		3	2	2	ō
BRISTOL	20	70	29	7	-	-	2	-	2	1	14	2	3	
WOLVERHAMPTON .	9	12	3	4	1	_	1	-	_	1		1	1	1
BIRMINGHAM	20	129	49	18		4	_	_	7	3	14	9	12	1
LEICESTER	29	54	36	7	-	-	-	_	1	1	22	-	-	
Nottingham	26	44	20	4	1	2	-	-	-	2	10	-	1	
LIVERPOOL	30	283	132	45	6	6	13	_	2	5	55	13	16	3
MANCHESTER	34	229	98	30	12	3	3	1	~	7	50	8	14	2
SALFORD	31	74	37	4	2	5	-		5	-	19	- 1	2	
BRADFORD	21	59	22	7		-	2		3	3	7	2	1	
LEEDS	29	143	65	17	2	_	1		_	10	42	3	4	
SHEFFIELD	33	154	61	20	2	4	8		5	3	27	2	4	
HULL	17	39	13	3	1	1	_	-	_	1	1	-	1	
SUNDERLAND	51	97	28	11	52	1	2	-	-	1	3	1	-	
NEWCASTLE-ON-TYNE -	39	96	20	9	34	1	-	-	7	1	5	3	2	1
Dublik	16	95	18	17	3	-	5	-	1	4	4	3	, 5	2

TABLE 5 .- DEATHS in LONDON Registered in the THIRTY-SECOND Week of the Year 1871.

TABLE 5.—L	EATHS	шт	IUNI	OON	ne	gist	ere	ı ın	1	the THIRTY-SECOND We	ek or	tne 1	ear	18	71.			
	veek	Sa	In t	he W	eek	endi	ng , 187	1.			Veek		In th					٦.
	Averages of the Thirty-second Week in the 10 years 1861-70.		Deat	hs of the	Per		of				Averages of the Thirty-second Week n the 10 years 1861-70.	J	Deat	hs of the	Pers Ages	sons	of	
CAUSES OF DEATH.	verage ty-sec 10 yes	ALL		der	r 40.	r 60°	r 80.	and		CAUSES OF DEATH.	verage ty-sec 10 yes	ALL AGES.	Une 20		r 40.	r 60.	r 80.	and
	Thirlin the	Mean		1	under 40.	. under	under		II		Thirt	Mean		,	under	under	under	ears a
Mean Temperature -	62.3	Tem. 68.3	0-2.	5-20.	20 and	40 and	60 and	80 Years upwards	II	Mean Temperature -	62.3	Tem.	0-5.	5-20.	20 and	40 and	60 and	80 Ye
ALL CAUSES	1476.5	1568	825	125		193	-		II	9. Stricture of Intestines -	.9			-		4	_	-
SPECIFIED CAUSES	1463.7	1566	824	125	192					10. Fistula	7.9	10	2	2	ī	2	3.	-
I. ZYMOTIC DISEASES. ORDER 1.									I	13. Hepatitis	4.3	5	1	1	1	2 3		1 17
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	14.2 81.8	96 28 30	35 27 22	20 1 8	34	6	1	-	II	15. Liver Disease, &c 16. Spleen Disease, &c ORDER 5.	16.8	15				8	4	
4. Diphtheria	63°5 8°4 °7	5	1	1	-	=	=	-	II	1. Nephritis	•9 •5	4		-	1	-	3	-
6. Croup 7. Whooping-cough 8. Typhus	8·7 37·0	5 41 6	39 1	2	- 3	- 2	-	-	II	3. Bright's Disease (Nephria) 4. Diabetes 5. Calculus (Stone)	10·1 ·6 ·5	8 1 -		-	2 1	2 -	4	
- Entericor Typhoid Fever - Simple continued Fever - 9. Erysipelas	6.2	13 7 9	1 2 8 2	1	3 2 2	3 1 3	- 2	1 -	II	6. Cystitis	8.0	5	Ē	-	ī	2	2	-
10. Puerperal Fever (Metria) 11. Carbuncle – – – 12. Influenza – – –	3.0 1.1	2 - 1	ī	-	2 -	-	=	-		ORDER 6.  1. Ovarian Dropsy 2. Uterus Disease, &c	1.0	- 5	-	-	- 1	-4	-	1:
13. Dysentery	2·4 226·1 95·4	3 299 15	275 13	4	2 6 1	4	1 8 1	2		ORDER 7.  I. Synovitis (Arthritis) -	•1	-			_			-
16. Ague	·4 ·9 5·2	3	=		- 1	- 1	- - 1	-		2. Joint Disease, &c ORDER 8.	3.8	3	2	-	1		-	-
19. Other Zymotic Diseases - ORDER 2.	-1	-	-		-	-	-	_	II	1. Phlegmon	1.9	4 - 2	- 2	1	2 -	1 -	-	:
1. Syphilis	6.8	11 1	9 -	ī	2 -	-	1	-	Ш	3. Skin Disease, &c IV. DEVELOPMENTAL	1.3		_			-		-
4. Glanders ORDER 3.		=	-	=	-	-	=	_	11	DISEASES. ORDER 1.								
2. Want of Breast-milk -	14.8 1.3	23 4	23 2	=	-	1	1 -	-	Н	1. Premature Birth 2. Cyanosis	20·4 1·9 1·4	24	24	-	-	-	-	:
4. Alco-\alpha Del. Tremens - holism \beta Intemperance - ORDER 4.	1.3 2.2 1.3	1	=	=	ī	1	-		II	4. Other Malformations	13.5	16	1 16			_	Ξ	
1. Thrush	5.7	4 -	4 -	-	-	-	-	-	II	ORDER 2.  1. Paramenia 2. Childbirth (see Puer-)	*2	7	-	-	7	-	-	
II. CONSTITUTIONAL DIS. ORDER 1.										peral Fever)} ORDER 3.	4.8		-				_	F
1. Gout	2°4 11°2 25°9	3 12 37	31	- - 1	1 4	2 2 15	1 4 16	2	II	1. Old Age ORDER 4.	39.0	44		-	_	_	20	2
4. Cancrum Oris (Noma) - 5. Mortification	3.2	3	-	-	=	_	2	1	II	1. Atrophy and Debility - V. VIOLENT DEATHS, &c.	83.9	96	76	2	_	2	16	-
ORDER 2.  1. Scrofula	9°6 29°4	11 45	4 40	4 5	2	-	1	-	H	ORDER 1. (ACCIDENT OF NEGLIGENCE.)								
8. Phthisis 4. Hydrocephalus	157.5	147 35	11 30	26 4	64	43	3		11	1. Fractures and Contusions 2. Wounds	16.3	9	1	2	2	-	4	:
ORDER 1. 1. Cephalitis	14.8	24	18	2		2	1		II	8. Burns and Scalds 4. Poison 5. Drowning	9.6 1.6 3.1	3 1 13	2 - 1	1 6	1 5		-	1
2. Apoplexy	28.8	26 30	4	-	1 -	11 5 1	9 23	1 2		6. Suffocation 7. Otherwise	3.1	8 8	8 2	-	ĩ	-	-	
4. Insanity	2·0 6·1	2 4		- 1	1 1	2	-		II	ORDER 3. (HOMICIDE.)								١
8. Brain Disease, &c ORDER 2.	47°3 15°8	51 17	49	2	4	6	6			1. Murder and Manslaughter ORDER 4.	5.3	5	3	-	2		-	-
1. Pericarditis 2. Aneurism 3. Heart Disease, &c	1.7 2.1 50.8	4 1 62	- 1	2 - 8	7	1 1 24	20	- 2		(SUICIDE.)  1. Wounds { Gunshot Cut, Stab	*4	1	_	_	_	1	-	
ORDER 3.	3.7	4	2	1	-	1	_		1	2. Poison	1.2 1.0 1.3 1.1	1 1 1 1	-	1	î	1 -		1
2. Bronchitis 3. Pleurisy	2.6	51 2 34	22 - 20	- 4	2 3	10	18	-		5. Otherwise	1.1	-	=	-	_	1 -	-	-
5. Asthma	3·4 8·6	7	2	ī	ī	2 2	1	1 -	н	ORDER 5. (EXECUTION.) 1. Hanging								
1. Gastritis	2.5 8.1	10	5	1 10	2	1	1	2				-	_	-	-	_	-	-
4. Ascites	4*8 2*3 2*9	5 3 4	- 1	1 -	1 2 1	1 1	-			Violent Deaths (not classed) Sudden Deaths (Cause un-)	2.7	1	 1	1			1	-
6. Hernia – – – – 7. Ileus – – – 8. Intussusception – –	3°0 2°6 1°2	8 -	-	2 -	-	1	2 4 -	1		Causes not specified or ill- defined	10.1	1		-	-	-	1	-

											dui	ring	the	w ee	k en	ding
	Enume- suinp	during				The	DEAT:	HS TO	gistere	d in	the W	Teek i	nelude	3		
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	3,251,804 2057	1568	584	231	96	28	30	5	41	6	13	7	299	49	79	283
WEST DISTRICTS	561,189 315 751,668 470 333,887 174 638,928 422 966,132 676	271 376 172 317 432	107 130 60 123 164	43 59 25 42 62	3 45 2 16 30	5 3 1 12 7	4 5 2 4 15	4 - 1 -	9 6 3 13 10	2 - 4	3 6 - 2 2	- - 4 8	53 65 29 68 84	4 9 7 11 18	5 25 10 17 22	57 89 87 46 54
WEST DISTRICTS.  St. Mary Paddington WH St. John Paddington H Kensington Town WL Brompton H St. Peter Hammersmith St. Peter Hammersmith H Fulham WLLLL Chelsea North-west HWw Chelsea North-west HWw Chelsea North-west HWw Chelsea North-west HWW St. John Westminster HHH St. John Westminster WWHH St. James's Square Golden Square W Golden Square W St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. James's Square St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH St. Anne Soho HH	58702 47 38082 15 91583 66 928651 10 6662 3 36639 16 23378 19 20419 16 23278 21 21389 9 18700 12 18920 7 58043 28 88470 20 27640 10 10453 2 12855 4 10279 5 17555 7	33 12 44 8 1 21 10 13 23 13 6 7 20 13 3 3 10	15 22 22 3 - 12 7 3 5 4 1 1 6 7 11 1 1 8 3	263 - 52 3 10 1 2 1 3 - 3 - 2	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2		2 1 2 - 1 2	111111111111111111111111111111111111111	1		11 152 63 4 - 8 - 1 4 4 4 1 1 2 1	1	11111121113	3 3 11 1 1 2 2 15 - 6 2 - 9 - 1
North Districts	28574 18 16419 3 26387 19 21795 8 33899 18 33110 17 32271 7 38199 25 29360 15 29216 22 28562 18 18068 16 68198 46 97801 69 115948 81 9910 5 6599 2 29076 18 50087 40 30305 23	17 3 20 11 20 9 24 13 21 15 12 18 32 46 62 2 3 7	4 1 8 6 13 5 5 5 4 5 16 19 17 1 1 3 7 4	1 - 3 3 1 2 2 3 4 9 3 4 9 - 1 1 5 1	16 -2 -13 24 151	1 1 1 4 4 1 1 1 1 1 2 1 1 2 1	1 3	111111111111111111111111111111111111111	1 1 1 1 1 2 2 1	1	1 1 2		1 1 1 4 11 - 4 2 3 1 2 7 7 11 1 - 3 1 3 1	1 1 2 1 1 2 1	1 - 2 1 2 6 1 4 8	8 -9 -18 -11 -13 -3 -5 -3
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH St. Giles North	17843 12 19989 8 16497 6 11326 8 9831 7 9876 5 10711 7 20321 13 13323 7 6051 5 18812 13 16878 8 13293 7 16220 10 10732 2 14484 10 13639 5 7662 4 11184 4 2889 2 6308 4 11184 4 2889 2 6308 4 1694 7 7682 4	7 14 6 6 6 6 5 4 12 11 6 6 10 11 7 4 7 8 6 3 9 14 1 1 - - - - - - - - - - - - - - - -	5662 2 - 222 2 1334563341533 - 2111	11122211113111144	1								241 2 - 1 1111442 - 21122 - 11 11	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 3 3 - 2 - 1 1	3 7 6

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

Workhouse;

H.—Hospital;

L.—Lunatic Asylum;

w.—A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

		ing	ing				The I	EATH	s reg	istere	d in	the W	eek ir	iclude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total BIRTHS during the Week.	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
EAST DISTRICTS.								-									
Holywell Shoreditch	12429 16545 27832 26944 24153 19257	6 4 26 23 14 18	8 7 7 8 13 6	324435	1 3 -	- 1	2 - - 2 1	1 4 1, 4 1 1	11111	1	11111	1		1 5 1 1 2	1	111111	1 5
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	17 18 19 15	12 24 7 10	8 12 4 4	311	1 3 - 2	1 1 1	=	11111	2 1		i -	ī	4 6 1 3	1111	1111	3.7.7
Artillery Whitechapel Soitalfields	6651 15844 15550 11434 7323 10381 9149	3 7 6 8 10 2	3 16 3 12 4 10	2 1 2 - 1 4	1 6 2 - 1	1 - 3	1	1	1 -	1	111111	1141141	111111	1 2 2 3	2 -	- 2 1 3 -	8 -11 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	7 23 8	8 15 10	5 8 1	- 2	1 2 3	- 2 3	1 -	-	1 1 1	111	-	2 -	3 3 2			- 6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11623 15930 30025	9 17	7 10 14	3. 7	3 1 1	10.7	1 1 1	ī	=	2	-	-	-	- 6	$\frac{1}{2}$	3 1	2
Mile End Old Town West Mile End Old Town East WwH	38126 55020	34 40	18 26	11 9	2 5	1	ī	-	-	1 -	-	-	1 -	8 4	- 2	1	3
Bow WwHL† Poplar WH	67777 48500	54 29	32 24	13 6	4 2	2 1	-	ī	-	1 -	=	-	24	6 2	1	1 3	5
SOUTH DISTRICTS.  Christchurch Southwark W	14547 15667 20480 16694 18959 23673 48232 16786	12 9 20 14 9 12 44 10	9 7 15 10 4 12 25 7	3 3 4 - 4 10 3	3 1 1 1 - 6 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 1	1 1		-	2		-	1 3 5 -4 8 1	1 - 1	1 - 1	1 - 8 2
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	6 16 13 38 16	8 5 13 10 16 8	2 5 4 11 3	2 1 2 1 1	2 - 1 -	1 1 1	2 -		1 - 2	11/11/11	- - 1 -		1 2 1 1 3 1	1 1 - 2	1 - 2	3 -
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 35831 41284 31213 35431 12534	12 16 8 31 28 19 14 12	3 10 9 20 15 7 16 1	1 6 5 7 6 -1	7 1 1 1	1 1 1 10 -	1	1 2 -	1111111	2 1	1	1111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 8 1 4 2	1	1 1	7
Clapham HL	27348 53988 19797 9438 14479	15 41 20 8 1	12 26 6 3 3	3 7 3 1 2	2 3 1 1 1	1 3	1 -	3	11111	1 -	11111		-	3 3 7	- 1	1	1
Dulwich	4041 31251 42159 33851	19 26 26	1 11 22 15	1 5 9 9	8 3 1	- 2 2	1	2-1-1		- - - 1.	1111	1111	-	1 2 4 4	- 1	1	1 00 1
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	52 1 12 16	29 4 9 20	15 1 4 6	5 - 2 4	1	11.11	2	1.1.1.1	- - 1			1 -	8 1 2 3	3 - 1	4 -1 3	1 8
Eltham - Lee - Lewisham Village W Sydenham	4528 16430 11508 19016	4 3 9 8	2 5 3 7	- 1 1 5	1 2 -	-		-		1111	11.11	1111		- - -	i - -	1 -	1
Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead, West	9503 17229 18319 13028 15290	3 11 19 12 11	2 8 5 5 4	2 3 1 2 2	- - 1 1	1			i i i	ī	1111	1	1 -	1 1 2 1	11111	1111	11111

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsen North-west sub-district.
The Strand
The Strand
The John City
John Court Sub-district.
Jo, do,
John Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.

Mile End Old Town Eastern sub-dist. and
Stepney - ""
Bow sub-district.

Stepney - ""
Bow sub-district.

sub-district. Stepney - ,, ,,
† Lunatic Asylums where paupers are admitted.

27	2
4	
TABLE 7 METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 12th August, 1871.	$\llbracket$ Under the Superintendence of the Astronomer Royal. $ ceil$

MONTH AND DA

1871.

AUGUST.

SUNDAY . .

							* M	Teteore	ologic	al (	Obse	ervations.		•
				euoz@	:	::	::	::		26		nean hose n at dry hean hean hean hose had and and sults of the well a by rage rays.	d as	-Col.
RAIN.	Collected	in a Gauge	receiving	above the ground.	Inches 0.00	0.00	00.00	00.0	Sum 0.00	25		to the mean to with those the main thouse the dry the dry seed into mean S. from free the mean daily include the results as well as well as well as well as well as well as well as well as well as well as well as well as well observed.	understood as self-registering depth of about ider the super-	f LieutCol the week to increased to ek.
ž		Robinsou's.	Amount of	Movement of Air each day.	Miles.	168	124	94	Sum 920	24		d to be 139 feet above the mean dered to be coincident with those The observations are taken at admings of the barometer, the dry sums, part I, 1848. The mean daily values of the dry and as, part I, 1848. The mean daily values of the dry and as. Fourth edition. The results whibited in column T, include the histories are defermined by the moneters, as defermined by ing applied to each. The average from the thermometrical observation the thermometrical observation of the grant of the sack of the dry and a possible from the thermometrical observation of the sack of the dry average from the thermometrical observation of the sack of the dry average from the thermometrical observation of the sack of the dry and the sack of	re to be un use of seio, at the de- tered und	mission o ginning of the 8th; of the we
	neters.		arefoot	Mean of 24 Obs.	lbs. 0.0	0.0	0.0	0.0	:	233		be 15 d to be 15 e observable be	by the ce Ship e regis	by per the beg r.w. or the end
	Апетог		nbs uo a	Least.	lbs. 0.0	0.1	0.0	0.0	:	22		red to The Tadiles of the Tadiles of	serval	ship, lee. 1. at 1 1y 3h. n. by t
WIND.	d from	.8	Pressure on square foot	Great-	lbs. 0.3	1.3	0.5	9.0	:	21		onside meter. of the act the act the self the se	ical oblight. ascerdripion	the the 1800
	As deduced from Anemometers	Osler's.		P. M.	W. by S.	NE. & E. E. E. & ENE.	ENE. &E. by S. NE., E., &	S, E, & SE. E. & ESE.	NE.	20	NOTES.	onoter is considered to be 159 feet above the mean barometer are considered to be coincident with those midard barometer. The observations are taken at The means of the readings of the barometer, the dry The area of the readings of the barometer, the dry estimated the sections deduced by James Glaisher, F.R.S. The mean daily lever 31—See Phil. Frans., part 1, 1848. The mean daily reluced from those mean daily values of the dry and Hygrometerical Tables, Fourth edition. The results of the the munbers exhibited in column 7, include the read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M. as well and an and minimum thermometers, as determined by reoper corrections being applied to each. The average of by M. Glaisher from the thermometrical observation in this do years enting 1852. December 31, bornen mind that + is read "highery" and,—" (boney,	meteorolog nt to midni Thames is f the "Sco f these ins	on board Metropolities sed from sed to 29°9 creased to
			General Direction.	A.M.	જ	Calm & NE. E. by N.	Calm &	田田	E. &	19		100000000000000000000000000000000000000	than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight, to midnight.  The temperature of the water of the Thames is ascertained by the use of self-registering threm ometeors, assponded from the side of the "Scorpion". Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the super.	intendence of the resident impractor on board the ship, by permission of Lieut. Of Henderson, R.E., C.B., Commissioner of Metropolitan Police. The reading of the barometer interessed from 30 '02 in. at the beginning of the week 30 '02 in. by 9h. R.M. on the 6th; decreased to 29 '83 in. by 3h. R.M. on the 6th; increased 30 '02 in. by 9h. A.M. on the 10th; and decreased to 29 '85 in. by the end of the week.
Degree	of Hu- midity,	Satura-	being repre-	sented by 100.	16	84	66	63 59	63	18		istern of reading of the column of the colum	e result; ay, or fr f the wa ided fron	esident Comm barom the 6
	1		mean tem-	the same day on an average of 50 years.*	+ 4.9	++ 5.5.7	++ 1.3	+ 7.5	+ 6.2	17		The height of the cistern of the balevel of the sea. The readings of the Orthe Royal Society's flut glass style. A.M., noon; 3h. P.M.; and 9h. P.M.; and 9h. P.M. daily values by the application of cordew point and degree of hundity are deep voint and degree of hundity are web built the mean daily temperature of the air observations of the dry thermometers by Grasher's as the results deduced from the maxime sake results deduced from the maxime sake results deduced from the maxime solf-registering thermometers. The temperature of the air is that determine the comperature of the air is that determine twill be solf-registering thermometers. The comperature of the air is that determine twill be adding the Pijh columnity will.	than the average. The applying to the civil of The temperature of thermometers, susper 2 feet below the surfa	F. R.E., C.B. Ling of the young of the cy 9h. P.M. Cy 9h. A.M. O
DIFFERENCE	oint		1	Least.	0.1	0.0	0.0	0.0	1.0	16		e heig of thue Ro- a.M.; n a.M.; n a.M.; n a.M.; n and a.M.; n bulb t bulb t bulb t hean c vation eratur taken taken	the avying to ying te tem momet	dersor dersor ne read o in. b
DIFF	Dew F	Lemperature and	Air temperature	Great-	20.2	15.5	24.1	27.0	23.1	15		The level of the level of the level of the level daily years dew wet for n obsers as the level as the level to level wet the level of the level of	appl appl ther	Hen The 30.00
	Between Dew Point	Tem	Moon		6.7		11.9	15.0 2	11.2 2	14		and mist sight, and Cloudless meteors.	cloudless bserved. co-stratus Very fine.	g seen
-		Water of			62.8	62.8 65.6	64.8 1 66.4 1	66.6 1	65.3 1	13		Haze and mist rowards night, and netcors. fine day. Cloudless e. A few metcors.	early ele cors obse nd cirro-e ess. Vel	Lightnir
		In the Wa the Tham	Greenwich, by self-registering Thermometers	Highest. L	65.6	9.99	67.4	9.69	67.5	12	HERE.	i till noon. Haze in amount towards in amount towards in the cores. A very fine day. Sery fine A few in Tyfine day. Numerot iyfine day. Numerot iyfine day. Numerot	ing. N ber of mel cirrus an	A very fine day. Lightning seen
ens.	Lowest	Grass, as			52.1	46.0	44.0	43.3	46.5	11	ATMOSPHERE.	diminished in amount by 10hr P.M. A few yorld morning. A very A few meteors.  The at times. Very fin the at times.	fog in morning. Nearly cloudless A great number of meteors observed. A little light, cirrus and cirro-stratus P.M.; otherwise cloudless. Very fine.	
NGS OF THERMOMETERS.	Highest in	shown by (a self-regis-	Thermo	bulb in vacuo, placed on the Grass.	120.7	136.9	142.9	140.0	137.1	10	AND	ally cordininiss by 10, and the arry mo		Several meteors.  A little cloud present at times. at night. A few meteors.
S OF T	-			daily b	59.1	59.6	55.4	56.6	0.19	6	SKY	was generally clouds me cloudle by in the convards on the convards.	e day,	d prese
READING				daily c	0.19	64.7	67.3	69.6	8.89	00		The sky w prevalent. 11 the sky becam Very foggy from sh. P.M. A little light	Dense haze and slight throughout the day, Fine. Fogzy in early morning, seen between noon and 3h,	al meter the clou at. A f
E	-		9	day, v	21.8	25.1	30.1	825.8	27.9	-1		The sky 'prevalent.' The sky becall from sh. P.M. A little ligh	Dense har throughout throughout the Foggy in seeu between	Severa A lit at nigl
		Dry.	1		59.2		51.9	52.2	55.1	9		1	_	
			40.5	Limite	81.0		85.0	88.2	83.0	l us	ITY.	occasionally	,	
ISARO-	Mean	reading		32 degr. Fahren- heit).	in. 30.076		29.969	29.954	29.978	4	ELECTRICITY	sity show:	ofty.	oity.
MOON.		Dhacos		Moon.		Last		Greatest Dec. N.	:	00	EL	No electricity shown. Weak positive (manifested,	No electricity.	No electricity.
-					9		01	12		suu	-	9 4 8 6		69

No. of Colum

DATE.

AUGUST.

SUNDAY .

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Deleted by Onen on Werner on Street on On

THURSDAY . 10 FRIDAY . 11

MONDAY .

TUESDAY . WEDNESDAY SATURDAY . 12

# WEEKLY RETURN

## DEATHS IN LONDO AND IN NINETEEN OTHER LARGE TOWNS

OF THE UNITED KINCDOM. By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 33. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, AUGUST 19. Price 1d.

> General Register Office, Somerset House, 21st August 1871.

During the week ending Saturday the 19th instant, 4620 births and 4164 deaths were registered in London and NINETEEN other LARGE CITIES and Towns of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 30 deaths annually in every 1000 persons living.

The annual rates of mortality last week in the SEVENTEEN ENGLISH CITIES and Towns, in the order of their topographical arrangement, were as follow:—London 27 per 1000; Portsmouth 22, Norwich 30, Bristol 26, Wolverhampton 20, Birmingham 27, Leicester 40, Nottingham 32, Liverpool 37, Manchester 37, Salford 44, Bradford 24, Leeds 38, Sheffield 36, Hull 27, Sunderland 49, and Newcastle-upon-Tyne 45. The deaths from small-pox in these towns showed a further decline last week, although the epidemic continues very fatally prevalent in Newcastle-upon-Tyne and Sunderland. Diarrhoea, however, was considerably more fatal, and caused 958 deaths in these towns last week, against 195, 340, 402, and 575 in the four previous weeks; the annual death-rate from diarrhea last week was equal to one per 1000 in Wolverhampton, 4 in Portsmouth and Newcastle-upon-Tyne, 5 in Bristol and Sunderland, 6 in Bradford, Hull, and Norwich, 7 in London and Birmingham, 11 in Liverpool and Nottingham, 12 in Sheffield and Salford, 13 in Leeds, 14 in Manchester, and 20 in Leicester.

In Edinburgh the annual rate of mortality from all causes last week was 27 per

1000 persons living, in Glasgow 34 per 1000, and in Dublin 19.

In Paris 828 deaths were returned in the week ending 18th instant, and the annual death-rate was equal to 24 per 1000 of the estimated population. In Brussels 81 deaths occurred in the week ending 12th instant, and the annual deathrate was 23 per 1000. In Berlin during the week ending 17th instant 834 deaths were recorded, including 120 from small-pox and 309 from infantile diarrhea, showing an annual rate of 54 per 1000. In Vienna the 384 deaths in the week ending 12th instant gave an annual rate of 32 per 1000. In Rome 131 deaths were registered in the week ending 6th instant, and, calculated on the population estimated by Prince Pallavicini at 225,000, the annual death-rate was 30 per 1000.

During the week ending 18th instant 130 deaths by Asiatic cholera were reported in Kænigsberg, including 51 children and 79 adults. It is also prevailing in the East Prussian Districts (Kreise) of Pillkallen, Olelzko, Lyck, and Insterburg. In Berlin a Sanitary Commission has been appointed for each District,

with voluntary committees and sub-committees.

In the City of New York 581 deaths were registered in the week ending 29th ultimo, and the equivalent annual rate of mortality was 32 per 1000.

In Bombay the deaths registered during the week ending 25th ultimo were 256,

and the mortality was at the annual rate of 16 per 1000.

In London 1992 BIRTHS and 1715 DEATHS were registered last week. After making due allowance for increase of population, the births were 136 below, while the deaths exceeded by 173, the average numbers in the corresponding week of the last ten years.

Zymotic diseases caused 682 deaths last week, including 80 from small-pox, 19 from measles, 21 from scarlet fever, 4 from diphtheria, 30 from whooping-cough, 31 from different forms of fever (of which 7 were certified as typhus, 19 as enteric or typhoid, and 5 as simple continued fever), and 425 from diarrhea; thus to the seven principal diseases of this class 610 deaths were referred last week, against 404 and 525 in the two preceding weeks.

The mean temperature, excepting perhaps one week in July, was exceptionally low during last May, June, and July, and so continued until the 6th instant, when decidedly warm weather set in and a considerable daily excess of temperature, averaging 6° 5, was shown during the 13 days ending the 18th instant. The

[33.]

hottest days of these 13 were Saturday 12th, when the mean was 72°·4, and the highest reading in the shade 88°·2; and Sunday 13th, when the mean was 73°·9, and the thermometer in the shade showed 89°·2. Sunday, 13th instant, was the hottest day since the memorable hot July in 1868. The full effect of this great heat upon the mortality from diarrheal diseases is shown in the deaths registered in the week ending last Saturday. The fatal cases of diarrhea in London, which had been 110, 201, 225, and 299 in the four previous weeks, rose to 425 last week, of which 388 were of infants aged under two years, and 18 of persons aged 60 years and upwards, leaving but 19 as occurring among children and adults aged two years and under 60. These 425 deaths from diarrhea in London exceeded by 222 the corrected average number in the corresponding week of the ten years 1861–70, and were equal to an annual death-rate of 7 per 1000 persons living; in the West group of Districts this death-rate from diarrhea was 8 per 1000, in the Northern group 6, in the Central and Eastern groups 7, and in the Southern group 6.

The deaths referred to cholera and choleraic diarrhea in London, which in the three previous weeks had been 17, 18, and 15, rose last week to 40, of which 33 were of infants not exceeding one year. The following are the details respecting the seven cases occurring among persons aged 15 years and upwards; the widow of a soldier, aged 66 years, died on 13th, in Portobello Road, Kensington, from "diarrhea, 3 days, cholera 24 hours;" a labourer, aged 44 years, on 18th instant, in Kensington Town, from "cholera 22½ hours;" in St. Paul Hammersmith, a retired schoolmaster, on 14th instant, from "Morbus cordis, English cholera, 2 days, exhaustion;" in Somers Town the widow of an ironmonger master, aged 67 years, on 13th, "English cholera, 48 hours;" at St. Paul Deptford, on 13th, a general labourer, aged 37 years, "choleraic diarrhea;" in the Clapham Road, on 11th, the daughter of a baker, aged 17 years, "English cholera;" and in Islington West, on 13th, a retired farmer, aged 50 years,

"diarrhea 36 hours, cholera 121 hours."

The fatal cases of small-pox in London declined last week to 80, the lowest weekly number since the first week of the year. After distributing the deaths in hospitals it appears that 8 belonged to the West group of districts, 14 to the North, 6 to the Central, 20 to the East, and 32 to the South. The largest decrease was shown in the north of London. The fatal cases were most numerous in Kentish Town, Islington West, Bow, St. James Bermondsey, Battersea, and St. George Camberwell, sub-districts.

To different forms of violence 65 deaths were referred last week; of these, 47 were caused by accident or negligence, including 20 by fractures and contusions, 2 from burns and scalds, 13 from drowning, and 6 from suffocation. Four of the deaths from fractures and contusions were caused by horses or vehicles in the streets. To sunstroke 4 deaths were referred; two of young children and two of adults. Four cases of murder and manslaughter, and no less than 12 of suicide, were

registered during the week.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.69 in.; the highest reading was 29.91 in. at the end of the week, and the lowest 29.26 in. on Friday afternoon. The mean temperature of the air was 67°·1, or 5°·8 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature on Sunday, 13th instant, was 73° 9, and 12° 0 above the average; up to the present time this was the hottest day of the year, 89° · 2 being recorded in the shade; a considerable but decreasing excess was shown on each succeeding day of the week, except Saturday, when the mean temperature was 60.08, and 00.1 below the average of 50 years. The highest day temperature in the shade was 89° 2 on Sunday; the lowest night temperature 54°.0 on both Wednesday and Saturday; the entire range of temperature in the week was, therefore, 35° 2. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 151° · 0 on Sunday 13th instant. The difference between the mean dew-point temperature and air temperature averaged 10°.6. The mean temperature of the water in the Thames, derived from daily observations taken at the "Scorpion" Police Ship, was 69° 6 last week. The mean degree of humidity of the air was 69, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air in the week averaged 9 miles per hour. Rain fell on Thursday and Friday to the amount of .69 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 59°·0 in Newcastle, to 66°·7 in Portsmouth; the lowest recorded night temperature was 49°·6 in Wolverhampton, and the highest day temperature in the shade 89° 2 in Leicester. Rain was measured last week in each of these towns; the amounts measured varied from '27 of an inch in Liverpool, to 1.79 inches in Birmingham.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 19°.5; the highest day temperature in the shade was 31°.8, the lowest night temperature 12°.2, and the highest temperature in the sun was 48°.4. The mean temperature of the corresponding week in 50 years averaged 16°·3, or 3°·2 below the temperature of last week. The wind blew at the rate of 14 kilometres an hour, and the rain-fall measured 1.75 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 237,758 cubic metres, and at Barking 239,821 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON .- Births and Deaths Registered LAST WEEK, and in the THIRTY-THIRD Week of Ten previous Years.

TOTAL Births  Males  Females	1861 1699 889 810	1862 1648 826 822	1863 1909 979 930	1864 1951 1048 903	1865 1973 954 1019	1866 1871 944 927	1867 1997 1017 980	1868 2054 1037 1017	2134 1065 1069	1870 2112 1136 976	Weekly Average in 10 Years. 1934 · 8 989 · 5 945 · 3	1992 993 999
TOTAL Deaths Males Females .	1257	1228	1320	1451	1182	1799	1391	1462	1527	1398	1401·5	1715
	642	625	704	724	612	946	698	741	764	737	719·8	895
	615	603	616	727	570	853	693	721	763	661	682·2	820

Note.—The deaths of last week may be compared with the average of deaths in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	May 20.	June 3.	June 10.	June 17.	June 24.	July 1.	July 8.	July 15.	July 22.	July 29.	Aug.	Aug.	Aug
FOTAL Deaths	1486	1393	1437	1349	1296	1328	1200	1259	1281	1420	1382	1568	1715
Deaths under 5 years of age - Deaths 5-20	594 152	513 137	548 150	477 135	495 131	541 135	466 122	507. 127	578 97	739 104	706 106	825 125	960. 107
Deaths 20—40	260 214 207 45	242 236 223 42	271 218 219 31	257 229 204 47	248 196 189 37	238 215 165 34	199 190 185 38	202 182 197 44	200 212 164 30	203 159 177 38	177 188 165 40	192 193 193 40	187 204 217 40
Deaths from Smallpox	267 11 28 8 43	229 16 25 10 28	245 - 23 34 6 32 - 4	240 21 17 9 29	232 27 24 3 33	235 15 16 8 36 4	164 12 24 4 30 8	133 22 40 9 23	135 17 24 1 28	122 18 19 8 22 9	87 18 24 5 25	96 28 30 5 41 6	80. 19. 21. 4. 30. 7
" Enteric (or Ty-phoid) fever - Simple Conta fever Diarrhea - Simple Cholera -	18 7 22 2	20 13 20 1	12 14 23 1	13 6 24	9 7 20 2	11 7 46 2	4 5 39 3	10 6 64 4	9 10 110 9	9 7 201 17	10 4 225 18	13 7 299 15	19. 5. 425 40.
" " Phthisis " Bronchitis " Pneumonia - " Heart Disease -	170 100 62 53	148 81 58 64	188 93 62 68	151 90 60 68	131 82 48 55	147 82 38 52	165 59 44 68	148 68 37 48	144 59 40 56	149 48 52 49	152 · 68 - 40 - 65	147 51 34 62	138 53 34 67
Mean Temperature of the Air Mean Temperature of the Water of the Thames -	50·1 52·4	59·1	49·9 56·3	59°·5	56·2 56·1	56·6 60·4	60°5	61.7	65·5 65·6	65.6	63.9	68.3	67·1 69·6
Humidity of the Air Rain-fall in inches	73 0·16	77 0·10	76 0·31	85 1·05	84 1·50	73 0·05	76 0·87	78 1·51	75 0·05	75 0:66	70 0·23	0.00 68	69 0·69

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 19th day of August 1871, in the following large Towns.

CITIES  AND  BOROUGHS.  (Municipal Boundaries for all except LONDON.)	Area in Acres.	POPULATION estimated to the middle of the Year 1871.*	Persons to an Acre. (1871.)	BIRTHS registered during the Week ending 19th Aug. 1871.	DEATHS registered during the Week ending 19th Aug. 1871.		Lowest during the Week.	Weekly Mean of the Daily Mean Values.	TEMPERATURE OF THE AIR. (CENTIGRADE.)  Weekly Mean of the Daily Mean Values.	RAIN In Inches.	FAL
Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	4620	4164	89.2	43.2	62.8	17:11	0.66	1
Kingdom)	77.997	3,263,872	41.8	1992	1715	89.2	54.0	67.1	19*50	0.69	1
PORTSMOUTH	9,513	113,450	11.9	79	48	86.2	54.0	66.7	19*28	0.88	2
Norwich .	7.472	80,533	10.8	52	47	84.2	50.5	64.0	17.78	0.47	1
BRISTOL 4 .	4.688	183,298	39.1	96	. 92:		notes 1		; ;		1.
WOLVERHAMPTON -	3,387	68,476	20*2	. 55	26	82°3	49.6	62.9	17:17	0'51	1
BIRMINGHAM	7,831	344,980	44'1	248	181	84°1	52.5	64.1	17.83	1.79	4
LEICESTER .	3,200	95,882	30.0	59	74	89°2	52.0	65.9	18.83	0.35	0
NOTTINGHAM	1,996	86,929	43.6	73	54	87°4	53°2	65.2	18.61	0.94	2
LIVERPOOL	5,108	494,649	96.8	327	347	78.2	.53*3	62.7	17.06	0.27	0
MANCHESTER	4,486	356,099	79.4	187	255		Passing	-	-		
SALFORD	5,172	125,422	34.3	91	105	81.1	52.0	62*2	16.78	0.73	1
BRADFORD	6,590	146,987	22*3	126	68	79.7	54'8	63.3	17:39	0.35	0
LEEDS	21,572	260,657	12.1	194	189	82.0	55.0	63.7	17.61	0.24	1
SHEFFIELD	22,830	241,507	10.6	171	165	81.5	:52*5	63.3	17:39	0.82	2
HULL	3,562	122,266	34.3	- 96	64	75.0	50*0	60.9	16.09	0.79	2
SUNDERLAND	3,306	98,797	29.9	60	93	stering		_	1	<u> </u>	
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	83	110	68.0	54.0	59.0	15.00	0.48	1
EDINBURGH	4,427	201,728	45.6	120	106	75.0	47.0	59.8	15'44	0.60	1
GLASGOW	5,063	479,227	94°7	353	313	71.0	43.2	58.0	14.44	0:37	0
DUBLIN - + -	9,745	310,565	31*9	158	112	75.7	45.0	59°3	15.16	0*60	1

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by add 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs sho a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the W ending Saturday the 19th day of August 1871.

												_	
	ANNUAL				Th	e DEAT	Hs regi	istered	in the V	Week in	relude	: -	
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age,	Years of Age and up-wards.	Small-pox.	Measies.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.
Total of 17 Towns -	31	3633	1538	479	168	39	48	7	51	76	958	125	181
LONDON	27	1715	710	257	80	19	21	4	30	31	425	65	89
PORTSMOUTH	22	48	20	9	_	-	-	240	-	1	9	1	1
Norwich	30	47	14	10	2	-		~	_	-	9	4	5
BRISTOL	26	92	33	14	1	1	3	-	1	2	16	6	9
WOLVERHAMPTON -	20	26	10	5	1	:-	-	_	1	1	1	-	-
BIRMINGHAM	27	181	70	21	1	5	3	-	6	3	46	6	15
LEICESTER	40	74	49	. 5	-	-	1	and .	1	-	36		2
NOTTINGHAM	32	54	29	5	1	-	-	-	-	5	18	2	4
LIVERPOOL	37	347	160	43	8	51	. 8	2	1	9	103	18	21
MANCHESTER	37	255	112	: 27	4	2	4		-	4	93	6	13
SALFORD	44	105	48	7	4	. 2	÷		. 2	1	30	. 1	2
BRADFORD	24	68	28	8		-	1		3	-	18	2	2
LEEDS	38	189	93	24	1	1	2		_	13	65	4	6
SHEFFIELD	36	165	82	14	1	/ 3	3		4	2	55	2	4
HULL	27	64	29	11		-		- 1	-	3	14	3	3
SUNDERLAND	49	93	12	14	37	-	8	1		1	9	2	1
NEWCASTLE-ON-TYNE -	45	110	39	5	27	1	-	-	2	-	11	3	4
DUBLIN	19	112	24	21	2	-	9	1	2	8	7	3	3

TABLE 5.—DEATHS in LONDON Registered in the THIRTY-THIRD Week of the Year 1871.

CAUSES OF DEATH.				_														
Mean Temperature		he eek 31-70.	Sa								reek 31-70.	Sa	In th	e W	eek	endin st 19	ıg , 187	1.
Mean Temperature		s of third W		Deat	hs of	Per	sons	of			ird W ird W irs 186		Deat	hs of the	Pera	ons (	of	
Mean Temperature	CAUSES OF DEATH.	ty-th 10 yes				. 40.	. 60.	. 80.	nd	CAUSES OF DEATH.	rerage rty-th 10 yes				40.			pu
Mean Temperature		Thir a the	-		0.	under	under	nug	ars a		Thir		20		under	under		
### ALL CAUSES - 1401-5   1715 000 107   187 204 217 40    ### SPECIFIC CAUSES   1386-2   1718 005 107   137 204 217 40    ### SPECIFIC CAUSES   1386-2   1718 005 107   137 204 217 40    ### SPECIFIC CAUSES   1386-2   1718 005 107   137 204 217 40    ### SPECIFIC CAUSES   1386-2   1718 005 107   137 204 217 40    ### SPECIFIC CAUSES   136-2   136 2   136 2   136 2   136 2    ### SPECIFIC CAUSES   136-2   136 2   136 2   136 2    ### SPECIFIC CAUSES   136-2   136 2   136 2    ### SPECIFIC CAUSES   136-2   136 2   136 2    ### SPECIFIC CAUSES   136-2    ### SPECIFIC CAUSES   136-2   136 2    ### SP	Mean Temperature -	0	Tem.	0-5.	5-20.	20 and	and	60 and	80 Yes	Mean Temperature -		Tem.	05.	5-20.	and	and	and	
SPERIFIC CAUSES  I. ZYMOTIC DISCASES.  O. Semanus 1.  Semanus 1.		1401.5	1715		-	187	204		40	9. Stricture of Intestines -	1.0	1		-	_	_		
1. Simulation						1			_	10. Fistula 11. Stomach Disease, &c	7'1.	9	ĩ	100		4	3	-
S. Seariet Perret (Sectalation)   60		7 2								13. Hepatitis	3.9	2 4	2	-	-	1	1	-
3. Supple (Sear Hand)  5. Quiny  6. Quiny  7. Quiny  8. Sphine  8. Typhine  9. Quiny  9. Quiny  9. Quiny  10. A Quiny  10. Expirite Disease (Sephria)  10. Purperal Fever (Methid)   1. Small-pox	15°5 25°9	19	27 18	23 1			-	-	16. Spleen Disease, &c	20.8	- 11	-		3	5		-	
3.	4. Diphtheria	9.2		15 2	6 2		-	~		1. Nephritis	*6	8			1	-		-
30. Erzinjelas Pewer (Metria) 5.9	6. Croup	13'4	30	12 30		-1		-	-	3. Bright's Disease (Nephria) 4. Diabetes	8.0	2		-	3	2	-	-
30. Erzinjelas Pewer (Metria) 5.9	- Entericor Typhoid Fever - Simple continued Fever -	48.0		5 1	3	7	3 2			6. Cystitis	-7	-		[	-	-		Ē
130 Inthomes	10. Puerperal Fever (Metria)	3.0				3 2	4	- 1	1	ORDER 6.								
15. Simple Cholera	12. Influenza	2°3		-	-	-	-	-		2. Uterus Disease, &c	3.3	7			_	3	4	-
13. Remittent Fever	15. Simple Cholera	59.1	40		1	δ 1	2			1. Synovitis (Arthritis) -		- 6	-	- 8	- 2	-	-	-
Oader   1	18. Rheumatism	6.4	5			ī	2	2		ORDER 8.					_		_	
2. Stricture of Urethra - '8	ORDER 2.							_		2. Ulcer	1.0	-		-+1	-			-
ORDER 5.   6	2. Stricture of Urethra -	8	3 -		-	_	63											
2. Want of Breast-milk	ORDER 3.	*6	-	-					-		79-7-	11	11	_	_			
1. Thrush     6'4   5   5   5     -   -	2 Purpure and Source	11.9		1			1			2. Cyanosis 3. Spina Bifida	1.3	3 -	3 -	-			-	-
1. Thrush — — — — — — — — — — — — — — — — — — —	nonsm i b intemperance -	1.1	2	=	=	1	1		_	5. Teething	12.8		21	-	-	-	_	-
I. CONSTITUTIONAL DIS.	1. Thrush	6.4	5 -	5 -	-	-		-	Ē	1. Paramenia		1	-		-	-	-	-
1. Govt   12'9										peral Fever) 5	4.7			-			-	-
4. Cancrum Orise (Noma) - 3	1. Gout	12.9	8			-	1	3		1. Old Age	41.3	59	_	-	_	-	35	24
1. Scrofula	4. Cancrum Oxis (Noma) -	'3	-	-			10	-	-	1. Atrophy and Debility -	81.3	87	77	-	_	2	8	-
3. Phthisis	1. Scrofula	8:3	11		3	3		-	-									
III. LOCAL DISEASES.	3. Phthisis	150.3	138	13 29	17 3	66					17:0	20	8	3	8	6	4	1
1. Cephalitia								_		2. Wounds 3. Burns and Scalds	4·1	1 1		- 1	1		- 1	-
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6. Epilepsy 6.0 6 1 1 2 - 2 - 2 - 1	3. Paralysis	23°0	29		-	100	2	20	2		2.2	5	3	-		1	-1	-
ORDER 2. 1. Pericarditis 1.78 2. Aneurism 1.75 3. Heart Disease, \$\frac{4}{9}\$ 47.3 6.7 1. Expenditis 3.55 0RDER 3. 1. Laryngitis 3.55 0RDER 3. 1. Laryngitis 3.55 0RDER 3. 1. Laryngitis 46.4 1. Signostis 46.4 1. Signostis 2.7 2. Browning 7 2. Poison 7 3. Browning 7 3. Browning 7 3. Browning 7 3. Browning 7 3. In In In In In In In In In In In In In	6. Epilepsy	6.0 41.0	54	54			-		, -	(Homicide.)	0.1				,	,		
ORDER 3.  1. Laryngitis 3.5 7 6 - 1 2  2. Bronchitis 46.4 53 19 1 1 8 20 4  3. Pleurisy 1.6 1 1 - 1  4. Pheumonia - 41.3 34 21 - 5 5 5 3  5. Asthma 3.5 4 7 8 3 - 1 2 1  6. Lung Discase, \$\phi_c\$ 9.7 6 3 - 1 2 1  2. Enteritis 2.1 7 3 3 1  2. Enteritis 7.3 16 10 - 1 2 3 - 1  3. Peritonitis 6.0 9 1 3 3 2 1  4. Astices 1.9 3 - 1 - 1 1  5. Ulceration of Intestines - 2.4 3 2 - 1 - 1 - 2  6. Hernia 2.9 5 - 1 - 2 2 - 1 - 1  7. Heus 2.9 5 - 1 - 2 2 1 - 1  8. Intrussusception - 1.2 2 1 - 1  8. Intrussusception - 1.2 2 1 - 1  Causes not specified or ill-  defined - 7 2 1 9 1 - 1  7. Poison (Cuse un- 2. Poison (Cuse un- 3. Provious 7.7 2 1 1 - 1  8. Intrussusception - 1.2 2 1 - 1  Causes not specified or ill- defined 13.1 2 2 1  defined	ORDER 2.			6	Ξ	1	5	11	1	ORDER 4.						1		
ORDER 3.  1. Laryngitis 3.5 7 6 - 1 2  2. Bronchitis 46.4 53 19 1 1 8 20 4  3. Pleurisy 1.6 1 1 - 1  4. Pheumonia - 41.3 34 21 - 5 5 5 3  5. Asthma 3.5 4 7 8 3 - 1 2 1  6. Lung Discase, \$\phi_c\$ 9.7 6 3 - 1 2 1  2. Enteritis 2.1 7 3 3 1  2. Enteritis 7.3 16 10 - 1 2 3 - 1  3. Peritonitis 6.0 9 1 3 3 2 1  4. Astices 1.9 3 - 1 - 1 1  5. Ulceration of Intestines - 2.4 3 2 - 1 - 1 - 2  6. Hernia 2.9 5 - 1 - 2 2 - 1 - 1  7. Heus 2.9 5 - 1 - 2 2 1 - 1  8. Intrussusception - 1.2 2 1 - 1  8. Intrussusception - 1.2 2 1 - 1  Causes not specified or ill-  defined - 7 2 1 9 1 - 1  7. Poison (Cuse un- 2. Poison (Cuse un- 3. Provious 7.7 2 1 1 - 1  8. Intrussusception - 1.2 2 1 - 1  Causes not specified or ill- defined 13.1 2 2 1  defined	2. Aneurism	1'8 1'5 47'3	3 67	- - 1	1 - 5	1 15	1 2 25	21			•1		-	-	-	-	-	-
2. Stronentus 46.4 53 19 1 1 8 20 4 4 . Hanging 271 1 1 4 . Pleurisy 176 1 5 . Otherwise 4 1 1 1 1 4 . Pneumonia 41.3 34 21 - 5 5 3 3 - 5 . Asthma 3.5 4 1 1 1 1 1 . ORDER 5.  6. Lung Disease, &c 9.7 6 3 - 1 2 3 1	ORDER 3.	3.2	7	6	-	_	-	_		2. Poison	•7	2 2		- 1	1		- 1	-
6. Lung Disease, cc 3.7	2. Bronchitis	1.6	53	83		1	8 - 5			4. Hanging - +	2.1	1	-	- 1		1	-	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5. Asthma 6. Lung Disease, &c	3.2	4			1	1 2	1	1									
5. Ulceration of Intestines - 2:4 3 2 1 - 1 - 8. Example 2:2	1. Gastritis	2*1	7	3	-		-	3		1. Hanging		-	-	_	_	-	-	
5. Orderation of intestines - 2:4 3 2 - 1 - 5 Sadden Deaths (Cause un- 6. Hernia 3:5 1 1 - 2 2 - 5 Sadden Deaths (Cause un- 7. Ileus 2:9 5 - 1 - 2 2 - Causes not specified or ill- 8. Intussusception - 1:2 2 1 - 1 - 1 - defined 13:1 2 2	3. Peritonitis	1 1 59 1	9 3	1 -	3	-	2	ī	1		-2	2	1	-	-	1	-	-
8. Intussusception -   1 2   2 -   -   1 -   1 -   defined   131   2   2   -   -   1	7. Ileus – – – –	2.9	3			_	1	-	-	ascertained) {	- "	-	- 0	-	-	-	-	
	8. Intussusception	1.2			-		-	1	-	defined}						-		

NOTE.—Where a person is "tound drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

TABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

													du	ring	the	Wee	k en	ding
			during	during				The	DEAT	ns re	gister	ed in	the V	Veek	includ	e		
Commence of the Contract of th	REGISTRARS' SUB-DISTRICTS.	Enume rated Popu- lation. 1871.	Total BIRTHS du	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhes.	Violence.	Inquest Cases.	In Public Insti- tutions.†
5 2 cm /2	LONDON * *	3,251,80	4 1992	1715	710	257	80	19	21	4	30	7	19	5	425	65	89	236
A 60 3 10 10 10 10 10 10 10 10 10 10 10 10 10	WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	- 561,189 - 751,668 - 333,887 - 638,928 - 966,132	310 435 176 472 599	311 393 160 328 523	134 155 66 130 225	38 66 29 47 77	3 32 1 12 32	3 9 4	3 3 12	1 8 -	4 6 4 7 9	1 1 - 2 3	3 3 4 6	2 2 1	90 91 46 84 114	15 15 5 12 18	23 18 8 17 23	47 70 22 38 59
	Kensington Town WL Brompton H St. Peter Hammersmith St. Paul Hammersmith H Fulham WLLLL Chelsea South HH Chelsea North-west HWw -	58702 38082 91583 - 28651 - 6662 36030 - 23378 - 26419 - 23278	35 13 49 23 4 22 14 11 16	43 15 48 8 3 19 13 18	22 5 22 4 1 10 8	4 3 9 - 1 3 - 5 2 2		1 -	2 1	11111111	13111111		1		12 3 15 3 1 7 7 7	1 3 - 1	215-1-1-2	3631122
The State of Paris and State of the State of	Chelsea North-east L Hanover Square	21389 - 18700 - 13020 - 58043 - 38470 - 27640 - 10453 - 12855 - 10279 - 17555	21 6 2 29 17 14 3 10 7	8 3 2 40 29 22 3 10 3 9	3 1 12 17 6 1 4 1	1 6 1	17117777111	1111111111		1		1111111111			4 - 7 12 3 1 4 1	12221	11421	11 17 17
A STATE OF THE STA	Rectory Marylebone WH - St. Mary Marylebone H - Christelurch Marylebone - St. John Marylebone - St. John Marylebone - Hampstead WHH - Regent's Park Pancras - Tottenham-court vH - Gray's Inn Lane H - Somers Town - Camden Town W - Kentish Town W - Islington East Www - Stoke Newington L	- 28574 - 15419 - 26387 - 21795 - 33892 - 33110 - 32271 - 38192 - 29360 - 29216 - 18966 - 68198 - 97801 - 115948	8 18 18 25 16 16 20 18 13 21 16 41 66 64	18 4 14 8 18 15 28 19 18 16 21 16 26 47 60	7 1 2 4 5 11 3 12 8 6 9 7 16 19 23	1 5 2 - 1 4 1 3 1 5 5 8 7 13 - 1	12 - 1 3 3 1 - 1	្រុមប្រជាពិប្រាញ	1 2 1		1 1 2 7 1 -		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HILLIA I TITLE IN	1 3 5 7 4 6 4 8 5 2 11 9 16 	3 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2	11142	15 1 8 1 47
Application of the last	West Hackney — — — Hackney WwHL — — — — South Hackney L — — — — — — — — — — — — — — — — — —	6599 28076 50087 30305	16 35 17	3 11 40 10	1 4 10 6	8 9 2	1 10 1	1111	1111	1111	1		11711	1111	3 8 4	1	2	20
	St. Giles North	- 19089 - 11326 - 9831 - 9831 - 9831 - 9831 - 10711 - 10711 - 1328 - 1328 - 1328 - 16878 - 162	11 5 2 6 4 5 15 11 3 9 10 7 8 6 29 8 2 8 1 1 1 3 1 - 3	13 9 6 5 12 3 6 3 7 10 8 5 5 7 11 4 6 3 15 2 15 2 15 2 15 2 15 2 15 2 15 2 15	14 3117 2423652415   4312       1	71111221111221 4	TOTAL PROPERTY OF THE PROPERTY	1			11 11 11 11 11 11 11 11 11 11 11 11 11				14 31 5 1321341116 - 11211 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 11 11 11 11 11 11 11 11 11 11 11	81 1018 III III III II II II II II II II II II

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

Saturday, 19th August 1871.																	
9		during	during				The I	EATH	s reg	istere	d in t	the W	eek ir	clude			
registrars <sup>,</sup> sub-districts.	Enume- rated Popu- lation. 1871.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26944 24153 19257	5 17 19 24 24 28	5 11 12 9 12 9	2 4 2 5 6 4	1 6 -3 1	11111	1 - 1	1	111111	11111	111111	111	11111	231252	nnn)	111111	1 15 14 1
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	28 30 26 11	8 13 14 10	3 5 8 5	3 4 3	- -		1111		1	1.11.1	17111	1	1 5 2	1111	1111	3 -
Artillery Whitechapel	6651 15844 15550 11434 7323 10381 9149	13 16 6 4 3 4	2 4 16 7 6 7	1 2 2 4 - 2 1	1 2 1 1 1 -	1111111	1	1	1111111	1111111	1111111	1	111111	1 4 2 - 2 1	- 2	2 - 2	4 - 5
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	13 9 5	16 11 7	5 7 3	3	П	1 1 -	1 -	111	1	ī -	-		6 1 2	1 -	2	- 3
Shadwell $W \rightarrow $	11623 15930 30025	9 11 20	15 8 14	. 8 3	1 - 2	1 2	1	-	=	1 -	-	1		1 5	2	4	1'
Mile End Old Town West Mile End Old Town East WwH	38126 55020	35 42	17 30	9 8	3	1 2	1	-	-	1 -	ī	-	-	8	-	-	4
Bow WwHL†	67777 48500	51 35	36 28	13 16	3	1	-	-	-	1 -	-	-	1 -	11 8	1	2	6 3
SOUTH DISTRICTS.  Christchurch Southwark W	14547 15667 20430 16694 18959 23673 48232 16786	9 11 10 9 13 16 25	6 2 12 4 12 - 10 25 12	3 1 6 1 5 7 15 4	2 - 1 - 1 2 1	1111	1 1	1	111111111111111111111111111111111111111	1		ī	1111111	2 - 3 - 6 6 2	1	117111111111111111111111111111111111111	2
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	12 2 10 40 11	18 8 6 12 21 11	1 3 4 12 3	3 1 2 2 1	- - 2 3 1	1 1	1 1 -	1,11111		11111		1	2 1 2 4 2	5 1 - 1	6	17 1 - - 3
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W Kennington 1st W Kennington 2nd Brixton Hi Norwood W	14086 18453 19470 85831 41284 81213 85481 12534	6 19 8 34 25 11 20 9	5 15 8 27 21 18 27 7	3 6 3 9 11 8 6 5	11 2 3 4	1 1 1 1 11				3 - 1		1	1111111	5 1 4 9 4 3 4	1 - 2 1	1 2	6 -
Clapham HL	27848 53988 19797 9438 14479	11 45 11 9 6	13 45 6 2 6	6 25 - 1 4	1 7 1 1 1	4	11111	1			1		1 - 1 -	3 14 - 1 1	1 1 - -	1	6 3 -
Dulwich Camberwell WL†L† Peckham W - St. George Camberwell	4041 31251 42159 33851	3 14 36 22	12 32 15	- 4 15 5	2 3 4 2	- - 8		- 2 -		7111		1		2 10 2	- 1 1	ī ~	6 -
St. Paul Deptford	53696 6487 21098 19320	40 7 9	28 2 18 10	12 1 7 6	5 4	1411	1111	1 1	1111	1111		- 1		7 6 -	1 1 - -	1 1	8
Eltham	4528 16430 11508 19016	4 6 11 11	2 10 3 3	1 3 8 -	4 -					1111		-		2 2 -	1111	1	1111
Charlton H Woolwich Dockyard Woolwich Arsenal H	9503 17229 18319 13028 15290	3 8 7 14 14	2 5 9 4 7	- 4 2 2 5	1 -	11111		1	11111	-	11111,		.1	2 1 2	11111	1	1

The following are Outlying Workhouses (indicated in the Tables by w):

Holborn Workhouse is in Hoxton New Town sub-district.

London City , , , | Mile End Old Town Eastern sub-dist, and |
Bow sub-district. | Bow sub-district. St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.
The Strand - , , Tottenham-court sub-district.
London City - , , , Islington East.
Hackney sub-district.

sub-district. | Stepney - .,
† Lunatic Asylums where paupers are admitted.

TABLE 7.—METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 19th August, 1871. Under the Superintendence of the Astronomer Royal.

the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glasher from the thermometrial observations taken at the Royal Observatory, Greenwich, in the 50 years ending 1863; December 31, \*In reading the Ith column it will be borned in mind that + is read "higher," and - "lover," than the average. The results of all the meteorological observations are to be understood as applying to the ovyl day, or from midnight to midnight. of the Royal Society's flint glass standard barometer. The observations are taken at 9th A.M.; noor, 3h. P.M. and 9h. P.M. The mens of the readings of the barometer, the dry thearmometer, and the wet thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Glasher, F.R.S., from the : 26 ne cistern of the barometer is considered to be 159 feet above the mean. The readings of the barometer are considered to be coincident with those The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of about : : The readings of these instruments are registered under the super-\*euozo years' observations ending 1845, December 31.—See Phil. Trans., part 1, 1848. The mean daily dew point and degree of humidity are deduced from those mean daily values of the dry and wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M., as well by 3h. P.M. on the 14th; increased to 29'81in. by 9h. A.M. on the 16th; decreased The reading of the barometer decreased from 29.88in, at the beginning of the week the results deduced from the maximum and minimum thermometers, as determined is 5 in. above the ground. nches 00.0 00.0 69.0 0.00 00.0 surface 52 29.74 in. by 3h. P.M. on the 14th; increased to 29.81 in. by 9h. A.M. on the 16th; de to 29.26 in. by 3h. P.M. on the 18th; and increased to 29.91 in. by the end of the week, Amount of of Air each day. the resident inspector on board the ship, by permission 124 158 243 Sum 1507 24 The height of the cistern of the barometer is considered to be 159 Mean of 24 Obs. Pressure on square foot 0.3 0.1 0.4 lbs. As deduced from Anemometers. 23 0.0 lbs. 0.0 0.0 Least. level of the sea. The readings of the barometer are consi of the Royal Society's flint glass standard barometer. WIND. 3.5 1.5 lbs. 0.8 2.1 Greatest. • E. & ESE. E.& ESE. SSE. SSW.NE. & WSW. E. & NE. General Direction. P. M. 20 Variable. ENE. Calm & S. SSE, S. & SSE, S. & SSW. Calm & NE. NNE. & NE. A.M. 19 tion being repre-sented by 100. Satura-18 65 99 72 85 65 69 feet below the surface. the same day on an average to of 50 years,\* perature of the day and mean temperature of mean tem-+12.0 9.5 5.4 2.8 17 ++ +++ + DIFFERENCE 0.0 40.0 1.3 3.4 Least Between Dew Point 91 26.4 23.5 24.5 23.1 13.3 20.1 22.0 Greatand est. 15 hours. morning; a little cloud pre-Lightning was seen at night. again in the 12.4 daily 9.5 value, 9.01 14 Was from 5h. F Lightning was 68.2 67.9 68.0 68.3 the Thames at Greenwich, by self-registering Thermometers 68.5 68.2 Highest. Lowest 0 Lightning 13 morning, and prevailed in the early moon, partially cloudy from ards. Lightning at night. AND ATMOSPHERE. 70.4 70.9 70.8 70.8 6 12 cloudless. very fine day, cloudless throughout. 54.4 shown by Rain fell after 10h. 44.8 46.3 52.0 49.4 the a self-11 52. 46. A very fine day; cloudless in the vailed in the afternoon and evening. READINGS OF THERMOMETERS. H fell Highest in the sun, as shown by a self-regisgenerally meter with Partially cloudy. A fine day. Haze and slight fog prevai Cloudless till the afternoon, 9h. P.M., cloudless afterwards. 151.0 142.5 141.8 139.6 132.0 140.3 SKY A very fine day, frequently at night. 61.5 54.2 58.7 58.0 59.3 6 Generally cloudy. Dew Point. daily 6 48. .99 67.9 73.9 6.02 67.1 8 Mean daily value. 8 25.8 23.0 29.5 23.5 lay. in 7 17 Dry. 60.5 54.0 8.99 at 59.7 Was at est. 9 54 shown shown 84.0 79.8 82.4 72.1 positive 63 8 S No electricity was shown. electricity was shown. ELECTRICITY נא 89. .64 Was Was in. 29·795 Mean daily and re-BARO-777 29.631 rected 32 degr. 29.782 29.289 688 A little weak positive 29. 29. No electricity. No electricity. In Equator MOON. 9 Jo No. of Columns 13 15 17 19 MONTH AND DAY. 13 15 16 18 SUNDAY . . . AUGUST. WEDNESDAY MONDAY. . THURSDAY. FRIDAY . . 1871. SATURDAY. MEAMS DATE. AUGUST. THURSDAY SUNDAY

## WEEKLY RETURN

OF

## BIRTHS AND DEATHS IN LONDON

OF THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 34. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, AUGUST 26. [Price 1\frac{1}{2}d.

General Register Office, Somerset House, 28th August 1871.

During the week ending Saturday the 26th instant, 4786 births and 4262 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week in these towns was at the

rate of 31 deaths annually to every 1000 persons living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, ranged in topographical order, were as follow:—London 27 per 1000; Portsmouth 19, Norwich 34, Bristol 23, Wolverhampton 22, Birmingham 28, Leicester 46, Nottingham 31, Liverpool 38, Manchester 40, Salford 43, Bradford 33, Leeds 42, Sheffield 44, Hull 36, Sunderland 44, and Newcastle-upon-Tyne 51. The deaths from small-pox in these towns, which had been 210 and 168 in the two previous weeks, further declined to 165 last week; of which 82 occurred in London, 33 in Sunderland, 22 in Newcastle-upon-Tyne, 9 in Manchester and Salford, and 6 in Sheffield. The fatal cases of diarrhæa, almost entirely infantile, which in the four previous weeks had steadily increased from 195 to 978, further rose last week to 1212; the annual death-rate from diarrhæa last week was equal to 2 per 1000 in Wolverhampton, 4 in Sunderland, 5 in Portsmouth, 6 in Bristol, 8 in London, 9 in Birmingham and Hull, 10 in Bradford, 11 in Nottingham, 12 in Newcastle-upon-Tyne, 14 in Norwich, 15 in Leeds, 16 in Liverpool and Manchester, 17 in Salford, 18 in Sheffield, and 22 in Leicester.

Sheffield is now suffering most severely from infantile diarrhæa; the annual death-rate from this disease last week being equal to 18 per 1000 of the popu-

death-rate from this disease last week being equal to 18 per 1000 of the population. The deaths from small-pox, moreover, show a tendency to increase, and from one, two, and one respectively in the three previous weeks rose to six last week. The registrars of several of the sub-districts have recently appended remarks to their returns, calling attention to the unsatisfactory sanitary condition of different parts of the town. The registrar of the South Sheffield sub-district says "Diarrhœa is principally prevalent in Pond Street, Harmer Lane, and Castle "Folds, and is probably engendered by the filthy accumulations in what are "called the 'Ponds' and the butchers' shambles in Castle Folds. The streams "which pass through Sheffield have become a curse. In the heart of the town some of these are dammed up for trade purposes, and are literally converted into open, stagnant cesspools." Comment is unnecessary; the common sense of

the town will, it is to be hoped, now step in.

In Edinburgh the annual rate of mortality from all causes last week was 29 per

1000 persons living, in Glasgow 30 per 1000, and in Dublin 22.

Asiatic cholera has made further advances; Dr. Zuelzer reports that it is now at Elbing and at Danzig. In Keenigsberg from 50 to 60 cases occur daily, 45 to 50 per cent. of which prove fatal. Four cases with three deaths are reported in Berlin.

In Paris 823 deaths were returned in the week ending 25th instant, and the annual death-rate was equal to 24 per 1000 of the estimated population; 79 deaths were referred to diarrhea, 27 to dysentery, 16 to cholerine, and 6 to cholera. In Berlin during the week ending 24th instant 840 deaths were recorded, showing an annual rate of 53 per 1000; of the 840 deaths 126 were referred to small-pox and 291 to diarrhea. In Rome 131 deaths were registered in the week ending 13th instant, and the annual death-rate was 30 per 1000.

In the City of New York 628 deaths were registered in the week ending

5th instant, and the equivalent annual rate of mortality was 35 per 1000.

[34.]

In Madras the 253 deaths in the week ending 7th July showed an annual death-

rate equal to 31 per 1000 of the population.

In LONDON 2103 BIRTHS and 1682 DEATHS were registered last week. After making due allowance for increase of population, the births were 57 below, and the deaths 218 above, the average numbers in the corresponding week of the last ten years.

The 1682 deaths in London last week included 82 from small-pox, 20 from measles, 24 from scarlet fever, 6 from diphtheria, 25 from whooping-cough, 22 from different forms of fever (of which 4 were certified as typhus, 11 as enteric or typhoid, and 7 as simple continued fever), and 487 from diarrhæa; thus to the seven principal diseases of the zymotic class 666 deaths were referred last week,

against 525 and 610 in the two preceding weeks.

The mean temperature last week, although showing a decline upon the previous week, exceeded the average on each day of the week. The fatal cases of diarrhœa in London, which in the two previous weeks had been 299 and 425, further increased to 487 last week; of these 450 were of infants aged under two years, and 21 of persons aged 60 years and upwards, leaving but 16 as occurring among children and adults aged two years and under 60. These 487 deaths from diarrhœa in London exceeded by 295 the corrected average number in the corresponding week of the ten years 1861–70, and were equal to an annual death-rate of 8 per 1000 persons living; in the West and North groups of Districts this death-rate from diarrhœa was 7 per 1000, in the Central group 4, and in the East and South groups 9.

The deaths referred to cholera and choleraic diarrhoa in London declined from 40 in the previous week to 28 last week. All who died were children, mostly infants, except the three following:—A corn dealer, aged 78 years, died in Graham Place, West Hackney, on 23d instant, from "choleraic diarrhoa, 6 days;" a cooper, aged 52 years, in Ellen Street, St. George in the East, on 18th, from "choleraic diarrhoa;" and the wife of a toy maker, aged 51 years, on 21st, in Elizabeth Street,

Walworth, from "choleraic diarrhea, 9 days."

The fatal cases of small-pox in London, which had been 87, 96, and 80 in the three previous weeks, were 82 last week. After distributing the deaths in hospitals it appears that 9 belonged to the West group of districts, 22 to the North, 4 to the Central, 20 to the East, and 27 to the South. These numbers showed an increase in the North, but had declined in the South group of districts. The fatal cases last week were most numerous in Kentish Town, Islington, and Mile-end Old Town Eastern.

To different forms of violence 50 deaths were referred last week; of these 46 were the result of accident or negligence, including 22 from fractures and contusions, 2 from burns and scalds, 9 from drowning, 7 from suffocation, and one from poison. Of the deaths from fractures and contusions 3 were of adults between the ages of 30 and 40, who were run over in the streets. The son of a surgeon, aged 6 years, died from a "locust bean in the ear, 7 weeks, inflammation of the brain, fever 14 days." One case of manslaughter, and three of suicide were registered during the week.

In the large Public Institutions of the Metropolis 246 deaths were recorded last week, or 15 per cent. of the total deaths; of these 116 occurred in Workhouses and

125 in Hospitals.

The fatal prevalence of diarrheal diseases, and the westward advance of Asiatic cholera, invest with more than ordinary interest Dr. Frankland's usual monthly report upon the quality of the Metropolitan water supply. The report for the present month states that "all the waters were clear and transparent when delivered from the companies' mains." With reference to organic matter, the most objectionable impurity in potable water, it appears that the water supplied by the New River and Kent Companies again stood pre-eminent for the smallness of the proportion of this impurity. The water of the six Metropolitan companies which draw their supply from the Thames and Lea rivers contained four times as much organic impurity as the Kent Company's water obtained from deep chalk wells, and three times as much as that delivered by the New River Company, which is partly derived from deep-seated springs, and partly from chalk wells. Of the river waters, the best was supplied by the West Middlesex Company, and the worst by the East London and Chelsea Companies. Dr. Hill reports that on the 4th instant the Birmingham water supply was turbid.

With reference to the advantage which would be derived from a general application of Dr. Clark's softening process to the London water supply, the following valuable facts have been communicated by Mr. Robert Rawlinson, C.B., C.E.:—
"The average daily water supply to the Metropolis was 111,292,104 gallons in June, and 112,107,697 gallons in July. Now in each million gallons of these waters there is about one ton of bi-carbonate of lime, or 111½ tons in June, and 112 in July. About two thirds of this weight of lime or chalk would be removed by Dr. Clark's softening process; that is, in June 74 tons, and in July about 75 tons. In each year about 25,000 tons of useless lime would be removed from the Metropolitan waters by the simple and easy process now in use at Canterbury."

This riddance of the foreign matter which deprives water of some of its cleansing properties, is in itself an advantage; but beside this, the fine precipitate of chalk carries down with it suspended impurities and probably frees it from choleraic and

other contagions. It is a most effective filtration.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.83 in.; the highest reading was 30.09 in. at the end of the week, and the lowest 29.55 in. on Thursday afternoon. The mean temperature of the air was 63°.0, or 2°.4 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was in excess of the average on each day of the week. The highest day temperature in the shade was 78°.7 on Monday, the lowest night temperature 50°.6 on Sunday; the entire range of temperature in the week was, therefore, 28°.1. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 146°.1 on Saturday. The difference between the mean dew-point temperature and air temperature averaged 8°. The mean of the highest readings of the temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 70°.5 last week. The mean degree of humidity of the air was 76, complete saturation being represented by 100. The general direction of the wind was S.W., and the horizontal movement of the air in the week averaged 13 miles per hour. Rain fell on three days of the week, but only to the amount of 0.09 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 56°·6 in Salford, to 63°·0 in Portsmouth; the lowest recorded night temperature was 40°·0 in Hull, and the highest day temperature in the shade 77°·5 in Leicester. Rain was measured last week in each of these towns; the amounts varied from 0·02 of an inch in Portsmouth to 1·12 inches

in Salford.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 17°·22 or 1°·33 above the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 26°·94, the lowest night temperature 10°·33, and the highest temperature in the sun was 45°·61. The wind blew at the rate of 21 kilometres an hour, and the rain-fall measured ·23 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 219,083 cubic metres, and at Barking 242,669 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

### ASIATIC CHOLERA.

The cholera epidemic now in Prussia will probably in its destined season enter England as it has hitherto done in spite of quarantine.

It is now known that where a place is clean, where the waters are pure, where the people are not crowded, where good administrative arrangements are made for the early treatment of attacks in the first stage of diarrhoa, the epidemic is disarmed of nearly all its terrors.

But as English towns are still dirty, are dotted over with cesspools or fouled by bad drains, and the waters alike of wells and of rivers from which towns draw their supplies are soiled to some extent by sewage, we can at present expect no absolute immunity. Commissions and Committees have left our water supply much as it was; the hard waters of the rivers are not purified by Clark's process, nor are the pure unpolluted streams brought incontaminate down to the cities in the plains.

Still much may be done, if cholera pursue its customary course, by commencing at once all useful works of purification, so as to mitigate its virulence when it attains its highest development next year. To the able engineers of the water companies we must trust for much valuable assistance.

Town Councils and Local Boards should organize their medical staff at once, in order to carry out a proper system of relief in conformity with the principles prescribed by the Local Government Board.

Some of the cholera cases in London are severe, but they are not of the Asiatic type. They demand the same kind of precautions. The thing to bear in mind is that diarrhea prevails; that unless this diarrhea is cured—as it can be near its origin—it turns in a certain number of cases into cholera, over which medicine exercises less control. The serum escapes with great velocity, and when once out is as difficult to replace as the blood from a bleeding wound.

Why did 487 persons, chiefly children, die of diarrhoea, 28 of simple cholera last week, and why will probably as many die of the same diseases next week? Chiefly because the cases are not treated in their early stages.

Not only the ignorant, but educated people neglect due precautions; the inconvenience is so slight until it is too late.

Where large bodies of men are concerned, they can be to some extent protected by their employers. This is shown by the experience of the public services. The Post Office in 1854 lost 5 men by epidemic cholera, in 1866 when excellent precautions were taken, none. The officers of the Customs in the four former epidemics lost by cholera 27, 14, 3, and 1 of their number. "The mortality decreased in the same proportion as the precautions increased."\* In the year 1832 the Guards in London lost 16 men by cholera, in the last epidemic not a single man. In 1849 the police lost 27 men, 18 in 1854, 7 in 1866, all the latter in the East London water field. The precautions of the force against the poison of that region were then inadequate.

The attacks often commence in the night; remedies of some kind should therefore always be at hand, ready for use before the doctor arrives. In medicine various theories prevail; and cathartics have been commended by some eminent physicians even in diarrhæa and cholera; by others they have been held to be deadly. It is worthy of remark that the successful handling of the men in the Post Office and in the other public services was based on the principle of preventing and of curing the diarrhæa. The treatment of actual disease of course varies according to the circumstances of the cases, and can only be properly prescribed by the medical attendant. There is no single antidote.

As a valuable adjunct during the epidemic, the following orangeade, suggested by Dr. Waller Lewis, has been extensively used with excellent effects.

## Sulphuric orangeade useful in cholera times,

Concentrated compound infusion of orange peel - 3 ounces. Simple syrup - - - - - 12 ounces. Boiled filtered water - - 4 gallons.

Mix well, and add - - 3 ounces of dilute sulphuric acid.

<sup>\*</sup> See Report by W. Farr, M.D., Supplement to 29th Annual Report of Registrar General, pp. lxxxii-iv,

A wine glassful may be taken for a draught with the addition of more or less of filtered water according to taste.

Of this beverage 1350 gallons were consumed with the best effect among the men of the London Post Office during the epidemic of 1866; it superseded to a great extent raw water and bad beer; its cost is only  $4\frac{1}{2}d$ . a gallon. The idea is excellent, as in hot weather men drink anything, and this fluid supersedes noxious waters.

The Registrar General has to acknowledge the courtesy of the London Water Companies, who have furnished him with the average daily quantity of Water supplied for the month of July 1871: thus, according to their account, 112,107,697 gallons or 509,357 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 229·1 gallons (104·1 decalitres), rather more than a ton by weight, to each house, and 32·3 gallons (14·7 decalitres) to each person.

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of July 1871, it may be estimated that about 91,928,314 gallons were probably used for domestic purposes, or about 26.5 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Registrar General has no means of giving a more exact estimate.

Companies,	and the second	Houses, &c.	in Gallons (in Manufactures purposes other	upply of Water cluding that for and for various er than for do- mption) during
	JUNE	JULY	JUNE	JULY
	1871.	1871.	1871.	1871.
TOTAL SUPPLY	487,692	489,331	111,292,104	112,107,697
From Thames	226,902	227,286	57,916,320	58,529,736
	260,790	262,045	53,375,784	53,577,961
THAMES, Chelsea West Middlesex Southwark and Vauxhall Grand Junction Lambeth	27,838	27,838	8,982,800	9,000,800
	42,209	42,370	9,783,547	10,275,328
	78,448	78,504	16,434,254	16,436,494
	31,820	31,820	11,825,019	11,590,874
	46,587	46,754	10,890,700	11,226,240
LEA AND OTHER SOURCES.				
New River	118,803	119,062	25,313,000	24,986,000
East London	101,852	102,624	20,455,000	21,279,000
Kent	40,135	40,359	7,607,784	7,312,961

Note.—The Return for July as compared with that for June shows an increase of 1639 houses and of 815,593 gallons of water supplied daily.

#### ANALYSIS OF METROPOLITAN WATER SUPPLY FOR AUGUST.

Royal College of Chemistry, 25th August 1871.

I have the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the Metropolis during the month of August, and I append also the results yielded by the Birmingham water supply furnished by Dr. Hill.

All the waters were clear and transparent when delivered from the companies' mains.

The most objectionable impurity in potable water is organic matter; the Kent and New River Companies' supplies stand pre-eminent in the smallness of the proportion of this impurity which they contained. The water of the six Metropolitan companies which draw their supply from the Thames and Lea contained four times as much of this impurity as the Kent Company's water which is obtained from deep wells sunk in the chalk, and nearly three times as much as the water delivered by the New River Company which is derived partly from deep-seated springs and partly from deep wells in the chalk.

Of river water, that delivered by the West Middlesex Company was the best, and that drawn

from the mains of the East London and Chelsea Companies the worst.

The water derived from the Thames and supplied by the Chelsea, West Middlesex, Southwark, Grand Junction, and Lambeth Companies contained a larger proportion of organic matter than is usually found in them at this period of the year.

Dr. Hill reports that on the 4th instant the Birmingham water supply was turbid.

I have, &c.,

The Registrar General, &c., &c.

E. FRANKLAND.

RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

										-	_
COMPANIES,	Date and Place of Collection.	Temperature in centigrade degrees.	Total Solid Impurity.	Organic Car- bon.	Organic Nitro-gen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sewage or Animal Contamina- tion. (Esti-	Chlorine.	Total Hard-
THAMES. Chelsea	9th August. Cab Rank, Horse Guards	20.0	25.26	•207	.031	•000	•089	•120	570	1.80	21.4
West Middlesex -	{ 9th August, Cab Rank, Portland-road }	21.2	24.86	•171	•017	.000	.062	.079	300	1.78	20.3
Southwark and Vauxhall -	{ Cab Rank, St. George's Church, Borough. }	21.2	25.60	•196	*022	•000	•055	•077	230	1.75	20.6
Grand Junction -	{ Cab Rank, Woodstock- street. }	20.3	25.92	•194	.027	•000	.078	105	460	1.75	22.0
Lambeth	{ Cab Rank, Lambeth-road }	20.2	26.40	*185	*020	.000	.090	•110	580	1.75	22.0
OTHER SOURCES. New River	9th August, Cab Rank, Tottenham- court-road.	20.8	23.14	.065	.011	.000	•138	•149	1060	1.62	19.7
East London	{ Royal Hotel, Mile-end-road.	22.0	22*90	•196	*038	•000	.034	.072	20	2.10	18.2
Kent	{ 10th August, Deptfd. Bdge. Police Stat.}	15.0	40.00	*038	•017	.000	*361	*378	3290	2.20	30.8
Birmingham*	4th August, Birmingham Waterworks	_	24.66	*316	•053	.003	*159	•214	1305	2.12	15.4
Column 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 9th August at the Horse Guards' cab rank had a temperature of C. 20° 0; 100,000 lbs. of it contained 25.56 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained '207 lb. of carbon and '031 lb. of nitrogen. The above quantity of water contained no ammonia, and '089 lb. of nitrogen in the form of nitrates and nitrites, whilst the total amount of combined nitrogen in every form was 120 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contaminated with animal matter equivalent to that contained in 570 lbs. of average London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 1.80 lbs. of chlorine. Finally, 100,000 lbs. of the water contained 21:48 lbs. of carbonate of lime, or an equivalent quantity of other hardening or soapdestroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation

transforms the hardness in the Table into degrees of hardness on Clark's scale.

Table 1. LONDON.—Births and Deaths Registered Last Week, and in the Thirty-Fourth Week of Ten previous Years.

Total Births  Males Females .	1861 1753 909 844	1862 1850 942 908	1863 1788 912 876	1864 	1865 1916 947 969	1866 2042 1050 992	2255 1154 1101	1868 2067 1047 1020	1869 2047 1032 1015	2006 1027 979	Weekly Average in 10 Years. 1963 · 9 1001 · 2 962 · 7	2103 1071 1032
Total Deaths  Males Females .	1159	1254	1337	1413	1135	1477	1247	1423	1463	1393	1330·6	1682
	598	620	690	706	585	732	666	724	756	726	680·3	863
	561	634	647	707	550	745	581	704	707	667	650·3	819

Note.—The deaths of last week may be compared with the average of deaths in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

1 = 1	June 3.	June 10.	June 17.	June 24.	July 1,	July 8.	July 15.	July 22.	July 29.	Aug. 5.	Aug.	Aug. 19.	Aug. 26.
TOTAL Deaths	1393	1437	1349	1296	1328	1200	1259	1281	1420	1382	1568	1715	1682
Deaths under 5 years of age - Deaths 5—20	513 137	548 150	477 135	495 131	541 135	466 122	507 127	578 97	739 104	706 106	825 125	960 107	967 100
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	242 236 223 42	271 218 219 31	257 229 204 47	248 196 189 37	238 215 165 34	199 190 185 38	202 182 197 44	200 212 164 30	203 159 177 38	177 188 165 40	192 193 193 40	187 204 217 40	194 197 180 44
Deaths from Small-pox , , Measles , , Scarlet Fever - , , Diphtheria -	229 16 25 10	245 23 34	240 21 17 9	232 27 24 3	235 15 16 8	164 12 24 4	133 22 40 9	135 17 24	122 18 19 8	87 18 24 5	96 28 30 5	80 19 21	82 20 24 6
Whooping-cough Typhus fever Enteric (or Ty-)	28 10 20	32 4	29 3	33 6 9	36 4 11	30 8 4	23 7	28 5	22 9	25 6	41 6	30 7 19	25 4 11
phoid) fever - f SimpleCont fever Diarrha a - Simple Cholera -	13 20 1	14 23 1	6 24	7 20 2	7 46 2	5 39 3	6 64 4	10 110 9	7 201 17	225 18	7 299 15	5 425 40	7 487 28
, Phthisis Bronchitis Pneumonia - Heart Disease -	148 81 58 64	188 93 62 68	151 90 60 68	131 82 48 55	147 82 38 52	165 59 44 68	148 68 37 48	144 59 40 56	149 48 52 49	152 68 40 65	147 51 34 62	138 53 34 67	145 53 30 60
Mean Temperature of the Air	53.9	49.9	59.5	56.2	56·6	60.5	61.7	65.5	60.4	60.3	68.3	67.1	63.0
Mean Temperature of the Water of the Thames -	59.1	56.3	57.2	56.1	60.4	61.4	63.2	65.6	65.6	63.9	66.4	69.6	70.5
Humidity of the Air Rain-fall in inches	77 0·10	76 0·31	85 1·05	84 1·50	73 0·05	76 0·87	78 1·51	75 0·05	75 0·66	70 0·23	0.00	69 0·69	76 0·09

### METEOROLOGICAL OBSERVATIONS. (See TABLE 3,)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A.K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland. Dr. Glatter, the Superintendent of Statistics in Vienna is good enough to supply the returns for that city.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 26th day of August 1871, in the following large Towns.

		26th day o	1 Augu	st 1871, 11	the follow	ving lai	rge To	WNS.			
CITIES	Area	Population estimated	Persons	Births registered	DEATHS registered		ATURE OF AHBENHE		TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALL.
AND .	în	to the middle of	to an	during the	during the	***	-	Weekly	GRADE.)		
BOROUGHS.	Acres.	the Year 1871.*	Acre. (1871.)	Week ending 26th August	Week ending 26th August	Highest during	Lowest	Mean of the	Weekly Mean of	In	In Centi-
(Municipal Boundaries for all except London.)		20/21	(1014.)	1871.	1871.	Week.	Week.	Daily Mean Values.	the Daily Mean Values.	Inches.	metres.
Total of 20 Towns in the UNITED	213,281	7,204,001	33.8	4786	4262	78.7	40.0	58.6	14.78	0.62	1.58
Kingdom)	PP 00P	0.000.000	43.00	0100		bro-th		2010		0.00	0.23
LONDON 7	77,997	3,263,872	41.8	2103	1682	78.7	50°6 52°8	63:0	17·22 17·22	0.05	0.52
PORTSMOUTH	9,513 7,472	113,450 80,533	10.8	78 43	41 53	76°2	46.5	60.5	15.66	0 02	0.41
BRISTOL	4,688	183,298	39°1	143	80	75 0	40.0	00 4	10 00	0 20	0 /1
WOLVERHAMPTON -	3,387	68,476	20.5	46	29	72.3	41.7	58.4	14.66	0.47	1.19
	1	1.		7.					7- 7-	2.	
BIRMINGHAM	7,831	344,980	44.1	257	185	72.4	43.0	59.4	15.22	0.37	0.94
LEICESTER	3,200	95,882	30.0	. 59.	. 84	77.5	42.0	58.8	14.89	0.37	0.94
NOTTINGHAM	1,996	86,929	43°6 96°8	49	51	75.6	40.9	59°1 58°7	15*05	0*28	0.41 1.80
LIVERPOOL	5,108	494,649 356,099	79.4	341	362 275	71.0	47.3	58.7	14.83	0.41	1.90
MANCHESTER	4,486	550,099	79 4	224	2/5						
SALFORD	5,172	125,422	34.3	111	104	71.5	40.4	56.6	13.66	1.13	2.84
BRADFORD	6,590	146,987	22:3	94	93	70.1	46:0	58.7	14.83	0.26	1.42
LEEDS	21,572	260,657	12.1	138	209	71.0	44.0	58.9	14.94	0.42	1.14
SHEFFIELD	22,830	241,507	10.6	197	202	71.0	42.0	58*3	14.61	0.76	1.93
HULL	3,562	122,266	34.3	96	.85	72.0	40.0	58.0	14.44	0.37	0.94
SUNDERLAND	3,306	98,797	29:9	70	83.	_	_	-			
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	102	125	67.0	52.0	56.7	13.72	0.39	0.99
EDINBURGH	4,427	201,728	45.6	102	112	67.0	42.0	55.0	12.78	1.60	4.08
GLASGOW	5,063	479,227	94.7	342	279	64.3	42.6	55°1	12.83	2.49	6.35
DUBLIN	9,745	310,565	31.9	191	128	73.7	40:0	58.8	14.89	0.28	0.41
					75						

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by adding 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs showed a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Week ending Saturday the 26th day of August 1871.

		onding on			,,			7517					**				
	ANNUAL RATE		The DEATHS registered in the Week include														
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of MOR- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Meastes.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Institutions.			
Total of 17 Towns -	31	3743	1729	421	165	43	51	10	55	58	1213	100	161	400			
LONDON	27	1682	719	224	82	20	24	6	25	22	487	50	79	246			
PORTSMOUTH	19	. 41	18	8	1	7	1.		1	-	11	-	1	6			
Norwich	34	53	34	8		-,	-	-	-	-	22	1	2	4			
Bristol	23	80,	36	13	-		3	-	1		20	2	3	6			
WOLVERHAMPTON -	22	29	13	6	1		~	-	1 -		2	1	2	3			
BIRMINGHAM -	28	185	92	18	1	5	1		3	2	62	- 6	11	13			
LEICESTER	46	84	52	8		3	3	-	1	-	40	1	3	- 3			
NOTTINGHAM - : -	31	51	23	7	1	. 70		-	1	2	18			. 2			
LIVERPOOL	38	362	184	34	7	4	10	1	9	10	151	9	13	26			
MANCHESTER	40	275	11,6	25	6	1 5	2	3	3	12	110	3 -	7	88			
SALFORD	43	104	54	10	3	1	-	2	3		42	1.	.2	7			
BRADFORD	33	93	52	2	-	17	-	-	i	4	29	5	8	8			
LEEDS	42	209	109	19	7	-	. 7	1	1	2	76	-8	10	13			
SHEFFIELD	44	202	99	16	6	5	6	-	3	1	85	3	7	4			
HULL	36	85	41	9	2	2	-	-	-	T	20	2	2	10			
SUNDERLAND	44	83	31	7	33	1	-	-	1	.3	. 8	7.	7	9			
NEWCASTLE-ON-TYNE -	.51	125	56	: 7	22	2	1	1	2	-	. 30	1	5	12			
DUBLIN	22	128	31	26		1	4	2	-	9	10	1	7.	46			

TABLE 5 .- DEATHS in LONDON Registered in the THIRTY-FOURTH Week of the Year 1871.

				_			_		
	the Week 1861-70.	·	turd	he Way, A	ugu	st 26,	1871		CAUSES OF DEATH.  CAUSES OF DEATH.
CAUSES OF DEATH.	Averages of the Thirty-fourth Week the 10 years 1861-70.	ALL		the	Age	900	80.	pı	CAUSES OF DEATH.
	Ave Thirty in the l	AGES. Mean		0.	d under	d under	Eu .	Years and upwards.	Ha Meen   3 3 3 44
Mean Temperature -	60.2	63·0	0-5-	5-20.	20 and	40 and	60 an	1 80 Y	Mean Temperature -
ALL CAUSES	1330.6	1682	967	100	194	197	180	44	9. Stricture of Intestines - '8 1
SPECIFIED CAUSES	1322 0	1674	965	98	194	194	179	44	11. Stomach Disease, &c 6.0 5 2 2 1 - 12. Pancreas Disease, &c
ZYMOTIC DISEASES.									14. Jaundice 4.9   -11   5   -   2   -   4   -
ORDER 1. Small-pox	14'1	82 20	33	19	22	6	2	-	16. Spleen Disease, &c '3
Scarlet Fever (Scarlatina)	30°3 69°8 9°7	24 6	18 14 2	94	1	-	-	-	ORDER 5.  1. Nephritis 9 1 1
Quinsy	1.2	7	1 6	1	_	-	-	-	2. Ischuria — — — — — — — — — — — — — — — — — — —
. Whooping-cough	34°5	25	25	-	3	- - 1	ĩ	-	5. Calculus (Stone) 7   -   -   -   -   -   -
Enteric or Typhoid Fever - Simple continued Fever	49.7	11 7	3 4	3 3 1	1	1 1	- 2	-	7. Kidney Disease, &c 6'8 4 1 - 3
Puerperal Fever (Metria) Carbunele	3.0	5 3 1	=	-	3	-	1	-	ORDER 6. 1. Ovarian Dropsy 2. Uterys Disease, &c 3.7 5 1 3 1 -
Influenza	2.8	1	-	-	-	-	-	- 1 8	2. Uterus Disease, c 3.7 5 1 3 1 - Obder 7.
. Diarrhœa – – – – . . Simple Cholera – –	174°5 39°1	487 28	462 24	1	-	3 2	13 1		1. Synovitis (Arthritis) - 3
Remittent Fever Rheumatism	.9	-7	-	3	-1	- 2	-		2. Joint Disease, &c 3.9 5 - 2 1 2 ORDER 8.
Other Zymotic Diseases -	5.6	-	-	-	-	-			1. Phlegmon 1.3 1 1 - 2. Ulcer
ORDER 2. Syphilis Stricture of Urethra -	8'6	5	5	-	-	-	-		3. Skin Disease, &c '9 1 1
. Hydrophobia	-7	-	-	-	-	1	-	-	IV. DEVELOPMENTAL DISEASES.
ORDER 3. . Privation		-	-	-		-	-		ORDER 1. 1. Premature Birth 19'1   23   23
Want of Breast-milk Purpura and Scurvy	12.6 2.1	18	18	-	-	-	-	-	2. Cyanosis 2·2
Alco- (a Del. Tremens - holism (b Intemperance -	2.7 1.3	1 2	1 -	-	1	1	-	=	4. Other Malformations - 1.4 2 2 5. Teething 13.6 19 19
ORDER 4.			9				-		ORDER 2.
. Worms, &c	4.7	9	-	-	-	1	-	-	1. Paramenia 1 1 1 2. Childbirth (see Puerperal 4 2 8 7 1
CONSTITUTIONAL DIS									Fever) 3 2 5 - 7 1 - ORDER 3.
Gout	1.2	3 15	3	1	2	2 4	1 5	-	1. Old Age 39.6 45 24 21
B. Cancer	26.3	85	-	Î.	7	16	10	1	ORDER 4.  1. Atrophy and Debility - 75'9 90 84 - 1 - 5 -
ORDER 2.	1.8	ī	<u> </u> -	_	-		ī	-	V. VIOLENT DEATHS, &c.
l. Scrofula 2. Tabes Mesenterica	9°2 29°6	16 34	11 32	1 2	3 -	1 -	-	-	ORDER 1. (ACCIDENT OF NEGLIGENCE.)
B. Phthisis	147.6 24.1	145 27	23	13	72	47	4 -	-	1. Fractures and Contusions   19.4   22   2   2   8   6   3   1
III. LOCAL DISEASES.									3. Burns and Scalds 3.0 2 1 1
ORDER 1.  1. Cephalitis  2. Apoplexy	14.1	22	14	8	4	-	1	-	4. Poison   '8   1   -   1   -   -   -
3. Paralysis	30.7 24.0 2.0	34 22	5 -	1	2 1	12 8	12 15	2 2	7. Otherwise 2.2 3 - 3
5. Chorea	5.8	7	1	1	- 2	3	1 -	-	Order 3. (Homicide.)
7. Convulsions	42·1 15·1	56 13	55	1	1	ī	9	1	1. Murder and Manslaughter 2·4 1 1
ORDER 2.	1.6	2	-	-	1	1		-	ORDER 4. (SUICIDE.)
2. Aneurism 3. Heart Disease, &c	2.2	60	- 1	- 5	11	25	16	2	1. Wounds {Gunshot - '2
ORDER 3. Laryngitis Bronchitis	3.8	3	2	-	1	-	-		2. Poison 6
B. Pleurisy	53'0	53	15	-	5	9	20	4	3. Drowning 1:8 1 1 - 4 4. Hanging 1:2 1 1 - 5 5. Otherwise 5
i. Pneumonia	37°4 3°5 7°0	30	16	2	3 1 1	6 2	2 - 2	1 -	ORDER 5.
		7	1	1	1	2	2	-	(Execution.)
ORDER 4. Gastritis	2'8 5'5	7	7	-	-	-	-	-	
Ascites	5.7 1.9	7 2 3 4	1 -	1 2		0	1		Violent Deaths (not classed) '5
6. Hernia	2.7 2.9 2.4	5 3	- 2	-	1 -	3	4		Sudden Deaths (Cause un-) ascertained)
S. Intussusception	.9	-	-	-	-	-	-	-	defined   6.8   8   2   2   -   3   1   -
Note,-Where a person is	" found	drown	ed "	the	POTOT	10118	95 1	n son	ne other eases, do not always succeed in discovering whether the case is

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON .- Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarle during the Week ending

		50 B		: .		The :	DEATE	as reg	istere	d in t	he W	eek in		1 661	z en	- III
REGISTRARS' SUB-DISTRICTS.	Popu- lation,	Total Berths during the Week.  Total Deaths during	the Week. Under I Year of Age.	60 Years of Age and upwards.	Small-pox,	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
LONDON	3,251,804 2	2103 16	382 719	224	82	20	24	6	25	4	11	7	487	50	79	24
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	751,668 333,887 638,928	463   3 180   1 513   3	260 112 376 162 147 45 344 143 555 257	36 56 17 42 73	6. 32 2 15 27	6 1 1 5 7	7 3 3 5 6	2 4	5 4 2 5 9	1 2 1	3 4 1 1 2	1 3 1 1	79 102 -27 105 174	4 10 6 12 18	11 19 10 14 25	38 67 34 46
WEST DISTRICTS.  St. Mary Paddington WH	88082 91583 28651 6962 36030 23378 26419 23278 21339 18700 13020 58043 38470	11	23 6 11 8 1 - 1 1 20 8 19 11	3571 32 -5 - 1 -3 -2 11 -2	31	2 1 1	511111111111111111111111111111111111111		1 1 1 1 1	1	1		5 3 13 2 1 7 10 6 6 4 - 1 4 9 2 - 1 2 3	1 2 - 1	1 - 1 5 1 - 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NORTH DISTRICTS.  All Souls Marylebone HH Cavendish Square Rectory Marylebone W H Christchurch Marylebone H Christchurch Marylebone Christchurch Marylebone Christchurch Marylebone Christchurch Marylebone Christchurch Marylebone Christchurch Marylebone Christchurch Marylebone	16419 26387 21795 233892 23110 32271 88192 29360 29216 38562 18064 68198 97801 115948 9810 6599 28076 50037	29 9 9 2 2 2 13 18 2 2 31 16 11 16 11 18 11 11 14 34 8. 8. 57 77 6 4 10 5 11 14 11 4 35 4 8. 85 4 8 35 4 8	4   1   5   7   10   10   10   10   10   10   10	1 3 3 2 1 2 1 2 7 2 6 9	11 1 1 1 3 8 4 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 2 1	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	3		1 -3 2 11 4 1 5 5 4 7 -4 13 18 3 1 4 11 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21-11-148832	188 
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH	16197 11323 9831 9876 10711 20521 13528 9051 18912 16878 13293 16220 12156 18291	14 8 1 7 5 4 5 8 1 1 5 7 17 11 12 8 21 10 3 5 8 7 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	111111111111111111111111111111111111111	1	1 2 7		2 1	1			11 11 11 11 11 11 11 11 11 11 11 11 11	3 5 - 1 1 1 1 1 2 3 - 3 3 2 - 1	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

#-Workhouse;

#-Hospital;

L-Lunatic Asylum;

#-A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 291

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

Saturday, 26th August 1871.																	
2		during	during				The L	EATH	s regis	stered	in the	Wee	k inc	lude			
registrars <sup>†</sup> sub-districts.	rated Population, 1871.	Total Birries du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26944 24158 19257	5 11 18 23 17 19	1 3 13 11 14 10	2 5 8 7 5	2 - 3 1		1	2	-	1	111111	11111	111111	1 2 6 3 5	111111	- 1 - 1 - 1 - 1	10111
Hackney-road Green, Bethnal Green WHLt Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	28 46 24 16	13 25 11 11	6 9 6 7	1 8 1	1 53	ī -	- 2 -	1111	ī.		1111	- 1 - 1	8 4 5 5	1114	1 -	6 -
Artillery Whitechapel	6651 15844 15550 11474 7823 10381 9149	4 12 7 14 6 8 2	1 8 1 6 21 8 5	5 2 4 6	1 3 1		- 1	1	11111		1111111	1111111	1111111	1 3 - 2 3 7 1	2 -	111111	15
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21856 8973	4 19 9	13 17 10	5 11 -	2 2 2	2	1	=	-	-	111	-	=	4 4 2	1 -		- - 6
Shadwell W Rateliff WH Limehouse W	11623 1493) 80025	5 14 21	15 8	1 5 1	1	ī -	Ξ-	1.5	-	1	=	-	111	2 4 8	1 -	1 -	3
Mile End Old Town West Mile End Old Town East WwH -	38126 55020	35 48	18 26	7 10	1 4	3		_	-	-	1.10	ī	1 -	6 8	-	1	3
Bow WwHLt	67777 48500	62 36	40 30	16 14	6 2	. 2	- 11 - 21	= 1		1 -	-	-	_	11 5	5 3	5 4	6
Christohurch Southwark W St. Saviour Southwark H	14747 15667 20430 16694 18959 23673 48232 16786	5 9 7 13 10 16 41 15	15 7 12 9 11 18 40 6	6 3 1 4 6 15	4 1 1 2 5 7	1 1 1 1 1	1	1	111111	1 - 1 - 1 - 1 - 1	111111	1111111	1111111	5 2 3 3 11	2 1	2 1	1
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W	41 <i>57</i> 10595 16785 15707 47921 25873	3 7 19 12 42 16	19 4 6 8 29 13	2 1 1 18 8	2 1 2 4 2 -	1 1 -	1 - 1 - 1 -	1 - 1		. 1	111111	11111	111111	3 1 3 - 12 2	5 - 1 2 -	5 - 1 2 -	14 1 - 4 - 2
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 35831 41284 81213 35431 12534	12 13 10 33 32 17 16 9	10 11 12 24 24 10 26 6	3 5 7 11 11 6 9 4	1 2 1 6 3 3 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1111111	1111111	rinner	1	********	4 1 6 4 7 4 7 3		1	- - 4 - 14
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	27348 53988 19797 9488 14479	18 33 9 4 8	7 30 9 4 5	21 3 3	1 1 - 1 1	1111		1	11111	1	11111	- - 1	11:11	3 15 2 1	- 2 -	3 2 -	4 2 -
Dulwich	4741 31251 47159 33851	2 22 34 23	25 29 14	11 11 8	5 3	1 2	- 1		1111	1111			- - 1	- 8 7 5	- - 1	1	3 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6437 21093 19320	27 8 14 17	34 5 10 12	22 3 6 5	1 1 2	- 1	1	-		1 -				20 2 5 2	- 1	1	- 3
Eltham	4828 16430 11508 19016	3 3 10 10	5 1 8	1 1 5	3 - 2		-			<u> </u>	-		-	1 1 1			111.11
Charlton H Woolwich Dockyard	9503 17229 15319 13 28 15250	2 2 19 6 13	2 5 13 3 14	1 3 8 8 3 10	1 -	1111		11111	11111		11111		11111	- 1 3 2 7	1 -	1 3 -	11111

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the Roxal Observatory, Greenwich, during the Week ending Saturday, 26th August, 1871. Under the Superintendence of the Astronomer Royal.

temperature of the air is that determined by Mr. Glaisher from the thermometrical observa-tions taken at the Royal Observatory, Greenwich, in the for years ending 1863, December 31.
\*In reading the Ifth column it will be borned in mind that his read "highery," and "homery" than the average. The results of all the meteorelogical observations are to be understood as ·auozo : : noon; 3h, P.M.; and 9h, P.M. The means of the readings of the barometer, the dry thermometer, and the wet thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Glaisher, F.M.S., from five for mean daily temperature of the air, or the numbers exhibited in column 7, include the as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glasher from the thermometrical observa-The temperature of the water of the Thames is accertained by the use of self-registering thermometers, suspended from the side of the "See pion" Police Ship, at the depth of about 2 feet below the surface. The readings, of these instruments are registered under the The height of the cistern of the barometer is considered to be 159 feet above the mean vel of the sea. The readings of the barometer are considered to be coincident with those observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M., as well superintendence of the resident inspector on board the ship, by permission of Lieut.-Col. Henderson, R.E., C.B., Commissioner of Metropolitan Police. vears' observations ending 1845, December 31.—See Phil. Trans., part 1, 1848. The mean daily dew point and degree of humidity are deduced from those mean daily values of the dry and The reading of the barometer increased from 29.91 in. at the beginning of the week to 29.92 in. by 10th A.M. on the 20th, decreased to 29.83 in. by 10th A.M. on the 20th, decreased to 29.83 in. by 10th A.M. on the 20th increased to 29.97 in. by 3th P.M. on the 20th increased to 29.97 in. by 3th P.M. on the 20th in. The observations are taken at 9h. A.M. surface is 5 in. nches above the ground, 00.0 00.0 0.03 0.00 60.0 0.01 00.0 Robinson's. of Air wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. 163 416 375 Sum 2239 24 of 24Obs. Pressure on square foot. 0.0 2.0 0.00 bs. 23 As deduced from Anemometers. [,east. lbs. 0.0 0.0 0.0 22 Great-0.00 est. applying to the civil day, or from midnight to midnight. 21. level of the sea. The readings of the barometer are of the Royal Society's flint glass standard barometer. W., N., & NOTES. SE. & SW. SW. WSW. WSW. P. M. General Direction. SW. 3W&WSW. SW&WSW. WSW. SW. A.M. NE. & 61 Degree of Hu-midity, complete Saturation being repre-sented 73 88 91 94 18 of 50 years.\* perature of the same day perature of 2.4 17 + ++ LARST. 00. 0.0 1.3 1.0 Between Dew Point 16 Air Temperature 12.8 21.6 14.3 15.1 13.9 est. 15 2.6 12.1 15.3 Overcast till night, and rain fell occasionally; cloudless about 11h. P. M., and auroral streamers were observed. A gale prevailed throughout th. a fermion and evening, the maximum fore occurring between 3h. p. M., and 5h. p. M., 9.7 0.8 Mean Generally overcast 14 Rain fell occasionally in the afternoon. the Thames at Greenwich, by self-registering Highest, Lowest. 0: 13 SKY AND ATMOSPHERE. 9.69 9.02 9.02 2.02 12 A little thin rain fell in the early morning. At Gainsborough an aurora was seen. Generally cloudless. Thermo-46.6 43.3 45.6 48.1 8.68 11 READINGS OF THERMOMETERS. bulb in vacuo, placed on the Grass. 121.2 135.0 121.8 124.4 146.1 10 Fine ; generally cloudly. Very fine throughout. Fine; partially cloudy. Overcast principally. 55.0 55.0 59.5 58.3 value. Generally cloudy. 6 67.2 60.9 0.89 63.1 64.4 daily value. 00 50.6 20.5 6 21.1 20.9 18.7 24-1 Range in ~ 71.1 50.6 2 78.7 63.0 1 52.8 56.0 54.8 50.8 54.9 The insulating lamp was out until the evening; at night weak positive was shown. 9 Insulating lamp not burning. 76.9 15.9 71.7 6.19 73.6 No electricity was shown. ELECTRICITY est. 2 duced to 32 degr. Fahren heit). 29.875 29.752 968-67 29.61 29.762 30.000 29.825 daily and re-Mean Dec. S. Perigee First Quarter of 9 200 22 23 No. of Columns. 24 25 26 MONTH AND DAY. 56 20 21 22 25 WEDNESDAY AUGUST. 1871. MEANS DATE. WEDNESDAY SATURDAY FRIDAY . TUESDAY MONDAY SUNDAY TUESDAY SUNDAT

### WEEKLY RETURN

#### BIRTHS AND DEATHS IN LONDON

AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 35. 1871. Vol. XXXII. WEEK ENDING SATURDAY, SEPTEMBER 2. Price 1d.

> General Register Office, Somerset House, 4th September 1871.

During the week ending Saturday the 2d instant, 4775 births and 3901 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 28 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, ranged in topographical order, were as follow: -London 24 per 1000; Portsmouth 21, Norwich 31, Bristol 20, Wolverhampton 20, Birmingham 33, Leicester 44, Nottingham 34, Liverpool 34, Manchester 43, Salford 44, Bradford 29, Leeds 37, Sheffield 35, Hull 25, Sunderland 50, and Newcastle-upon-Tyne The deaths from small-pox in these towns, which in the three previous weeks had been 210, 168, and 165, further declined to 150 last week; of which 78 occurred in London, 28 in Sunderland, 20 in Newcastle-upon-Tyne, 13 in Manchester and Salford, and 4 each in Liverpool and Sheffield. The fatal cases of diarrhea, principally infantile, which in the six previous weeks had steadily increased from 195 to 1213, declined to 1018 last week; the annual death-rate from this disease last week was equal to 3 per 1000 in Wolverhampton, 4 in Bristol, 6 each in London and Portsmouth, 7 in Hull, 10 each in Sunderland, Bradford, Nottingham, and Norwich, 11 in Newcastle, 12 each in Birmingham, Liverpool, and Leeds, 14 in Sheffield, 15 in Salford, 17 in Leicester, and 18 in Manchester.

In Edinburgh the annual rate of mortality from all causes last week was 21 per

1000 persons living, in Glasgow 27 per 1000, and in Dublin 18.

The cholera is making some progress in Germany, but it has neither reached

London nor Paris. The cases reported are of the ordinary summer type.

In Paris 846 deaths were returned in the week ending 2d instant, and the annual death-rate was equal to 24 per 1000 of the estimated population. In Brussels 106 deaths occurred in the week ending 26th ultimo, and the annual deathrate was 30 per 1000. In Berlin during the week ending 31st August 767 deaths were recorded, showing an annual rate of 50 per 1000; the deaths included 119 from small-pox, 241 from infantile diarrhea, and 2 from Asiatic cholera. Vienua the 309 deaths in the week ending 19th ultimo gave an annual rate of 26 per 1000. In Rome 139 deaths were registered in the week ending 20th ultimo, and the annual death-rate was 32 per 1000.

In the City of New York 630 deaths were registered in the week ending

12th August, and the equivalent annual rate of mortality was 35 per 1000.

In Bombay the deaths registered during the week ending 1st ultimo were 285, and the mortality was at the annual rate of 18 per 1000. In Madras the 249 deaths in the week ending 14th July showed an annual death-rate equal to 30 per

1000 of the population.

Weekly returns have been received from Calcutta down to 1st July; in the week ending on that day the reported mortality was at the annual rate of 22 in a 1000, which is slightly above the average of the year. The population is taken at 430,000; the reported deaths in the week were 179, of which 78 were by remittent fever, and 4 by cholera. The reported annual mortality of the population of Calcutta in 1870 was 25. The mortality both of Calcutta and Bombay is understated; but the returns in their present shape, made under difficulties, are highly creditable to the Indian authorities.

Bombay has distinguished itself in its efforts for sanitary improvement under the skilful guidance of the Commissioner, of Dr. Hewlett, and of the municipal body. The health of the city has become evidently better than it ever was, and the commerce of the port has been less than ever trammeled by quarantine. No one

[35.]

can now say that cholera found its way to Europe through Bombay. It may be hoped, therefore, at this critical moment, that instead of relaxation there will be increased effort to maintain the sanitary organization of the city in its utmost efficiency. All Europe expects this on the part of the Indian Government.

In London 2068 BIRTHS and 1485 DEATHS were registered last week. After making due allowance for increase of population, the births were 76 below, while the deaths exceeded by 49, the average numbers in the corresponding week of the

last ten years.

The 1485 deaths in London last week included 78 from small-pox, 19 from measles, 24 from scarlet fever, 9 from diphtheria, 32 from whooping-cough, 26 from different forms of fever (of which 7 were certified as typhus, 15 as enteric or typhoid, and 4 as simple continued fever), and 353 from diarrhea; thus to the seven principal diseases of the zymotic class 541 deaths were referred last week,

against 525, 610, and 666 in the three preceding weeks.

The mean temperature was again last week considerably in excess of the average for the corresponding week in fifty years, and the deaths referred to diarrhee in London were more than double average number for the same period in the last ten years. The fatal cases of diarrhee, which had been 299, 425, and 487 in the three previous weeks, declined however last week to 353; of these no less than 232 were of infants under two years of age, and 13 of persons aged 60 years and

upwards.

The deaths referred in London to cholera and choleraic diarrhoea further declined from 40 and 28 in the two previous weeks to 20 last week, of which 13 were of infants and young children, and seven of persons aged 20 years and upwards. At a time like the present it is of the first importance that in all cases of death from cholera or choleraic diarrhoea the duration of the attack should be stated upon the Certificate of the Cause of Death; means would thus be afforded of judging whether the usual summer sporadic cases be assuming a more dangerous type. As far as may be judged this does not now appear to be the case.

In the past five weeks the fatal cases of small-pox in London have only ranged between 96 and 78; the latter number, which was returned last week, is lower than that in any week since the epidemic broke out in the latter part of last year. After distributing the deaths in hospitals it appears that 7 belonged to the West group of districts, 20 to the North, 3 to the Central, 25 to the East, and 23 to the South. The number in the East districts showed an increase last week, while they had declined in other parts of London; the greatest fatality occurred in Bethnal Green sub-district, in which five deaths from this disease were reported.

To different forms of violence 38 deaths were referred last week; of these, 31 were the result of accident or negligence, including 9 from fractures and contusions, 3 from burns and scalds, 13 from drowning, and 4 from suffocation. Of the deaths from fractures and contusions, 2 were caused by horses or vehicles in the streets; one was of a child, aged 4 years, run over by a tramway car, the first fatal accident of the kind that has been reported. One case of manslaughter, and 6 of suicide, were registered during the week.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 30.00 in.; the highest reading was 30.31 in. on Monday morning, and the lowest 29.79 in. at the end of the week. The mean temperature of the air was 64°·0, or 4°·6 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature on Sunday, 27th ultimo, was only 58°.2, and nearly 2° below the average, while on each of the succeeding days of the week an increasing excess of temperature was shown, and on Saturday the mean was 67°·1 and 8°·4 above the average. The highest day temperature in the shade was 82°0 on Wednesday and Friday; the lowest night temperature 46°1 on Monday; the entire range of temperature in the week was, therefore, 35°9. The highest temperature in the sun, as shown by a selfregistering thermometer, with a blackened bulb in vacuo, placed on the grass, was 141° · 8 on Tuesday. The difference between the mean dew-point temperature and air temperature averaged 9°.9. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 64° 5 last week. The mean degree of humidity of the air was 71, complete saturation being represented by 100. The general direction of the wind was variable, and the

horizontal movement of the air in the week averaged 7 miles per hour. Rain fell

on Saturday, between 9 and 9°30 A.M., but only to the amount of °02 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 57° ·4 in Hull, to 62° ·3 in Manchester; the lowest recorded night temperature was 44° 0 in Hull, and the highest day temperature in the shade 81°:8 in Manchester. Rain was measured last week in all these towns, except Norwich, Nottingham, and Birmingham; the amounts varied from '01 of an inch in Wolverhampton to '56 in Bradford.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 214,743 cubic metres, and at Barking 246,098 cubic metres, equiva-

lent to about as many tons by weight.

Note.-A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the THIRTY-FIFTH Week of Ten previous Years.

	1861	1862	1863	1864.	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1871
Total Births  Males Females .	1725 874 851	912 940	1705 865 840	1867 970 897	2019 1002 1017	1780 881 899	2085 1034 1051	2247 1121 1126	2156 1128 1028	2055 1043 1012	1949·1 983·0 966·1	2068 1041 1027
Males Females .	1127 577 550	1147 609 538	1334 667 667	1441 711 730	1131 556 575	1413 704 709	1288 671 617	1356 682 674	1391 748 643	1426 740 686	1305·4 666·5 638·9	1485 786 699

Note.—The deaths of last week may be compared with the average of deaths in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	_								_			-	
	June 10.	June 17.	June 24.	July 1.	July 8.	July 15.	July 22.	July 29.	Aug. 5.	Aug.	Aug.	Aug.	Sept
OTAL Deaths	1437	1349	1296	1328	1200	1259	1281	1420	1382	1568	1715	1682	1485
Deaths under 5 years of age - Deaths 5—20	548 150	477 135	495 131	541 135	466 122	507 127	578 97	739 104	706 106	825 125	960 107	967 100	824 86
Deaths 20—40	271 218 219 31	257 229 204 47	248 196 189 37	238 215 165 34	199 190 185 38	202 182 197 44	200 212 164 30	203 159 177 38	177 188 165 40	192 193 193 40	187 204 217 40	194 197 180 44	178 184 178 35
Deaths from Smallpox  Measles Scarlet Fever Diphtheria Whooping-cough Typhus fever	245 23 34 6 32 4	240 21 17 9 29	232 27 24 3 83	235 15 16 8 36 4	164 12 24 4 30	133 22 40 9 23 7	135 17 24 1 28 5	122 18 19 8 22 9	87 18 24 5 25	96 28 30 5 41 6	80 19 21 4 30	82 20 24 6 25 4	78 19 24 9 32
" " " " " " " " " " " " " " " " " " "	12 14 23	13 6 24	9 7 20 2	11 7 46 2	4 5 39 3	10 6 64	9 10 110 9	9 7 201 17	10 4 225 18	13 7 299 15	19 5 425 40	11 7 487 28	15 4 353 20
,, Phthisis, Bronchitis, Pneumonia, Heart Disease -	188 93 62 68	151 90 60 68	131 82 48 55	147 82 38 52	165 59 44 68	148 68 37 48	144 59 40 56	149 48 52 49	152 68 40 65	147 51 34 62	138 53 34 67	145 53 30 60	164 59 37 61
Ican Temperature of the Air	49.9	59.5	56.2	56.6	60.5	61.7	65.5	60.4	60.3	68.3	67.1	63.0	64.0
Ican Temperature of the Water of the Thames -	56.3	57-2	56-1	60.4	61.4	63.2	65.6	65'-6	63.9	66.4	69.6	70.5	64.5
lumidity of the Air	76 0·31	85 1.05	84 1·50	73 0·05	76 0·87	78 1·51	75 0·05	75 0·66	70 0·23	68 0·00	69 0·69	76 0·09	71 0·02

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 2d day of September 1871, in the following large Towns.

		a day or k	1				0				
CIȚIES	Area	Population estimated	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE	тне Аів. іт.)	TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FA
BOROUGHS.  (Municipal Boundaries for all except London.)	in Acres.	to the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 2d Sept. 1871.	during the Week ending 2d Sept. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches,	C
Total of 20 Towns in the United Kingdom	213,281	7,204,001	33.8	4775	3901	83.0	41.3	60.9	16.06	0.12	(
LONDON	77,997	3,263,872	41.8	2068	1485	82.0	46'1	64*0	17.78	0.02	1
PORTSMOUTH	9,513	113,450	11.9	92	45	78.2	47.2	61.8	16'56	0.06	1
Norwich	7,472	80,533	10.8	49	48	77.5	47.0	60.3	15.72	0.00	1
BRISTOL	4,688	183,298	39:1	120	71	-		,	ा उसके औ		
WOLVERHAMPTON -	3,387	68,476	20.5	53	26	78.9	45.2	60°4	15.78	0.01	. 4
BIRMINGHAM	7,831	344,980	44'1	248	216	80.7	46*8	61:5	16.89	0.00	1
LEICESTER	3,200	95,882	30.0	63	81	80.2	45°2	62.2	16.78	0.03	1
NOTTINGHAM	1,996	86,929	43.6	64	56	81.3	46°4	61.9	16.61	0.00	1
LIVERPOOL	5.108	494,649	96:8	322	325	77.6	52.5	60.9	16.06	0.24	. (
MANCHESTER	4,486	356,099	79.4	260	292	81.8	46.0	62.3	16.83	0.48	1
SALFORD	5,172	125,422	34*3	105	1.05	81.1	47.0	62.0	16.67	0.37	1
BRADFORD	6,590	146,987	22.3	97	83	76.5	51.1	61.8	16.56	0.56	1
LEEDS	21,572	260,657	12.1	188	187	78.0	48.0	60.6	15.89	0.22	1 3
SHEFFIELD	22,830	241,507	10.6	184	163	79.0	46.0	60.4	15.78	0.12	. 1
HULL	3,562	122,266	34.3	74	58	74.0	44.0	57.4	14:11	0.08	. 6
SUNDERLAND	3,306	98,797	29*9	61	94					_	
NEWCASTLE-ON-TYNE	5.336	128,677	24 1	101	125	71.0	48.0	58.7	14.83	0.13	1
EDINBURGH -	4,427	201,728	45.6	135	82	76.0	45.0	60.1	15.61	0.00	
GLASGOW	5,063	479,227	94.7	364	252	75.2	46.2	59.3	15.16	0.00	6
DUBLIN	9,745	310,565	31:9	127	107	75.9	41.3	60.4	15.78	0.13	1
202211	0,730	. 01,000	01.0	448	-1/1	,00	31.0	.00 3	10,10	- 20	

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by ad 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs sh a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Wending Saturday the 2d day of September 1871.

	ANNUAL		5.0		Th	B DEAT	ns regi	istered :	in the V	Veek in	nelude		7 4.
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhœa.	Violence.	Inquest Cases.
Total of 17 Towns -	29	3460	1481	437	150	39	41	10	70	81	1018	69	141
LONDON	24	1485	565	213	78	19	24	9	32	26	353	38	65
PORTSMOUTH	21	45	20	10	-	_	-	-	1	1	13	-	
NORWICH	31	48	26	3	1	-	-	-		2	15	1	3
BRISTOL	20	71	27	16	-	1	1	-	-	2	13	3	5
WOLVERHAMPTON -	20	26	10	1	_ :		1		2	2	4	_	1
BIRMINGHAM -	33	216	115	24		7	1	1	6	4	80	7	12
LEICESTER	44	81	48	7	1			1	1	3	31		4
NOTTINGHAM	34	56	24	11	1	_		-	-	3	16	-	3
LIVERPOOL	34	325	140	49	4	3	7		6	11	117	6	15
MANCHESTER	43	292	148	27	7	2	4	-	3	4	126	2	12
SALFORD	44	105	54	8	6	_	-	-	5	5	87	-	-
BRADFORD	29	83	42	7	-	-	1	- 1	5	1	27	-	1
LEEDS	37	187	90	15	-	2	_	_	3	10	61	2	4
SHEFFIELD	35	163	63	18	4	2	2	-	4	2	64	1	3
HULL	25	58	24	7	_		-	-	-	1	17	2	3
SUNDERLAND	50	94	33	8	28	3	-	-	-	1	18	3	3
NEWCASTLE-ON-TYNE -	51	125	52	16	20	-	-	7.	2	3	26	4	7
DUBLIN	18	107	19	23	1	1	5	1	-	5	8	5	7

TABLE 5.—DEATHS in LONDON Registered in the THIRTY-FIFTH Week of the Year 1871.

		1							the Intellement								
-	he eek 61-70.	Sat	In t	he V	Veek epten	endi aber	ng 2, 18	871.		of the h Week rs 1861-70.	Satu	In the	he W	eek	endi ber 2	ng , 187	71.
WANTED ON DRAMM	Averages of the Thirty-fifth Week the 10 years 1861-70		Deat	hs o	f Per Age	sons	of			es of t fth W ars 18		Deat	hs of the	Per Age	sons	of	
CAUSES OF DEATH.	rty-fi 10 ye	ALL AGES.	U.n	der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages of Thirty-fifth 1 the 10 years 1	ALL AGES.		der	r 40.	r 60.	r 80°	and
	Thi in the	Mean	-	1	under	under	under	Years aupwards.		Thi in the	Mean			under 40	unde	and under	Years a
Mean Temperature -	59.7	Tem. 64.0	0-5.	5-20.	20 and	40 and	60 and	80 Ye upw	Mean Temperature	59.7	Tem. 64.0	0-6.	5-20.	20 and	40 and under 60	60 and	80 Ye
ALL CAUSES	1305.4	1485	824	86	178		178		9. Stricture of Intestines	1:0	1	Ĭ	-		<u> </u>	1	_
SPECIFIED CAUSES	1293.6	1478	820	86	178		176		10. Fistula	5'7-	7	3	,-	2	=	2	-
I. ZYMOTIC DISEASES.				-				Ī	13. Hepatitis	3.7 4.1	1 7	3	1.1.3	1	1 1 7	- 2	=
ORDER 1.  1. Small-pox	14.0 25.7	78 19	29 18	16 1	28	3	2		15. Liver Disease, &c 16. Spleen Disease, &c	18.2	17	3 -	-	1	7	4	2 -
8. Scarlet Fever (Scarlatina) 4. Diphtheria	72°1 10°3	24 9	16 6	7 3	ĩ -	-	-	Ē	ORDER 5.	1:0	_ 1		-	-	-	-	-
6. Croup	1'3 14'3 31'0	5 32 7	5 32	- 4	=	-	-	i	2. Ischuria – – – – 3. Bright's Disease (Nephria) 4. Diabetes – – –	6·4 1·9	6		=	2	3	1	-
8. Typhus	52.0	15 4	24 3 3	3	1 5	2	2 -	8	5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	*7 8*7	10		-	- 8	- 2	- 4	- 1
9. Erysipelas 10. Puerperal Fever (Metria) 11. Carbunele	519 1.9	1	3 2 -	-	1	1	-		ORDER 6.	-						_	-
12. Influenza	6 3 1.8	1 3	2	-	-	-	1	1 7	1. Ovarian Dropsy 2. Uterus Disease, &c	4.5	6	-	_	ī	2	3	
14. Diarrhea 15. Simple Cholera 16. Ague	158°3 :29°2 °3	353 20	330 13	8 	2 1 -	5 2	6	7	ORDER 7.  1. Synovitis (Arthritis)  2. Joint Disease, &c	4.9	1 4	-	3	1	- 1	-	-
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	*4 4'4	4			-	4	-	B	ORDER 8.  1. Phlegmon	11							-
ORDER 2.	5:2	9	8			1	_		2. Uleer	1.6	1	1	-	-	=	1 1 1	
2. Stricture of Urethra - 3. Hydrophobia	1.2	-	1 1 1		-	-	111		IV. DEVELOPMENTAL DISEASES.								
ORDER 3. 1. Privation	*2	-	12		-		-		ORDER 1. 1. Premature Birth	16.8	24	24	_	_	_		_
3. Purpura and Scurvy 4. Alco- (a Del. Tremens - holism) b Intemperance	13·3 1·4 2·1	12 2 2 2	1	1.	- 1	1		E	2. Cyanosis	1.5 .4 1.5	3	- 3	-	-	-	-	1 - 1
ORDER 4.	1.8	-	딝			1	ī		5. Teething ORDER 2.	12.8	12	12	_		_		_
1. Thrush 2. Worms, &c II. CONSTITUTIONAL DIS.	5'5	4	4			-		٥	1. Paramenia 2. Childbirth (see Puer-) peral Fever)	*2 5·3	7	-	-	6	1	-	-
ORDER 1.	2.0	1				1			ORDER 3.	49:0	35					10	70
2. Dropsy	11.'8 29°1	21	1	=	3	8	5 10		1. Old Age ORDER 4.	42.0					-	17	18
4. Cancrum Oris (Noma) - 5. Mortification ORDER 2.	2.8	8	_	= .		_	3		1. Atrophy and Debility - V. VIOLENT DEATHS, &c.	75.7	95	85	1		1	8	-
1. Scrofula	9.6 9.6	9 37	8 37	1:	-	-	-		ORDER 1. (ACCIDENT OF NEGLIGENCE.)								
3. Phthisis	142.7	164 28	9 26	17 2	78	50	10		1. Fractures and Contusions 2. Wounds	16:3	9	2	2	2	3	-	-
III. LOCAL DISEASES.  ORDER 1.									3. Burns and Scalds 4. Poison	2 9 9 8 5	3 - 13	2 -	1 4	- 4	- - 5	-	-
1. Cephalitis	11°4 28°8 23°9	11 30 15	9	2	3 2 1	9 5	12 7	2	5. Drowning	4·9 3·2	4 2	3 2	-	1 -	-	-	-
4. Insanity	1.6 5 5.8	2 - 2	-	-	1	1	-		ORDER 3.								
7. Convulsions 8. Brain Disease, &c	40°8 15°7	44 10	44 3	ī	1	3	2	-	(HOMICIDE.)  1. Murder and Manslaughter	2.5	1	_			1		-
ORDER 2. 1. Pericarditis 2. Aneurism	1°7 1°9	3 3	1	-	2	ĩ	2	Ę	ORDER 4. (SUICIDE.)	•2				_			-
8. Heart Disease, &c ORDER 3. 1. Laryngitis	48'4	61	1	2	9	26	23	1	1. Wounds {Gunshot Cut, Stab -	1:1	2 - 1	-	-	-	-	2 -	-
2. Bronchitis	4.7 53.6 2.8	59 4	26	1	2	7 2 9	21	2	3 Drowning	1:4 1:7	2 1	-	-	1	] - 1	1	-
4. Pneumonia – – – 5. Asthma – – – – 6. Lung Disease, &c. – –	39°1 3°9 10°2	37 2 10	15 - 2	3	5 1 1	9 3	5 1 3	-	ORDER 5. (EXECUTION.)								
ORDER 4. 1. Gastritis	2.0	1	_	_			1	-	1. Hanging			_	_	_	_	_	_
3. Peritonitis	7.0 3.8 2.3	7 9 4	1 -	2 4	1	2 2 1	1 2 1	-	Violent Deaths (not classed)	•1	-	_	_	-	-	-	-
5. Ulceration of Intestines - 6. Hernia - 7. Ileus	3°5 2°6 2°9	1 2 3	-	- 1	-	1	2	-	Sudden Deaths (Cause un-) ascertained)	.8	-	-	-	-	-	-	-
8. Intussusception	*4	-	-	-	-	-	-	=	defined	11.0	7	4	-	-	1	2	

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

			_								uui	mg	ше	W ee	х еп	uing
	Enume-	during			-	The	DEAT	HS TO	gistere	d in	the W	eek i	nclude			
REGISTRARS' SUB-DISTRICTS.	Popu- lation.		Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	3,251,804 20	)68 1485	565	213	78	19	24	9	32	7	15	4	353	38	65	219
WEST DISTRICTS	751,668 4 333,887 1 638,928 4	316 233 473 351 168 135 476 325 535 441	93 132 56 111 173	31 57 18 46 61	3 37 1 14 23	3 2 8 3	10 3 1 5 5	- 5 2 - 2	10 9 3 1 9	3 - 2 2	4 1 1 5	1 3 1	58 71 26 81 117	5 2 12 14	10 11 5 20 19	24 68 24 50 58
WEST DISTRICTS.  St. Mary Paddington WH	38082   191583   3	12 29 15 8 15 8 16 1 18 23 26 18 25 9 10 6 6 1 18 23 26 18 27 7 7 7 2 2 3 28 22 29 15 19 15 29 15 4 6 1 9 4 4	10 1 17 4 1 8 11 5 7 3 8 8 4 1 1	51521132111324	111111111111111111111111111111111111111	3	24 - 3 - 1		111111111111111111111111111111111111111		1 - 1		6 - 11 4 - 4 7 4 6 8 8 - 5 4 1		2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 - 1
NORTH DISTRICTS.  All Sonls Marylebone HH	15419 26387 1 21795 1 33892 1 33810 2 32271 1 38192 29360 1 29216 2 18066 1 18066 1 115948 7 9810 6 6599 2 8076 1 50087 8	19 9 9 4 17 10 19 9 17 11 19 11 9 12 28 8 40 18 18 19 15 5 6 6 1 15 5 20 23 23	4 5 5 5 5 7 6 4 2 7 5 8 16 28 1 10 7 8	1242 - 2 112 - 64 47 11586	13 - 1 1 6 1 - 1 1 3 - 1 1 3 - 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 221 - 1 1 1 1 - 1 - 1	21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 -1 3 6 1 3 2 - 4 - 7 9 21 - 7 2 3	1 1 1 2 7	1 1 1 1 1 1 1 1 3 1	1 10 - 14 3 1 7 3 6 5
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH	19089 1 1326 9881 9876 10711 20521 1 13523 9051 1 18523 1 12523 1 12523 1 1256 18220 1 12156 18220 1 1790 1 1772 1 14484 1 13639 7562 11184 1 3639 4744	4 5 10 11 12 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	145 1112 14122355622 1213 1	1 2 1 1 	THE THE PERSON OF THE PERSON O	1							1211-212-1122-3222			2 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

#-Workhouse;

H-Hospital;

L-Lunatic Asylum;

w-A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Feyer Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

Fever, Diphtheria, Whooping-cough, Fever, Diarrhea, Violence, &c., registered in each Sub-district Saturday, 2d September 1871.

Saturday, 2d September 1871.				`										•			
		during	during				The I	PEATH	s reg	istere	d in t	the W	eek ir	elude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enterio (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Institutions.
Holywell Shoreditch	12429 16545 27832 26944 24153 19257	5 10 21 19 13 13	2 11 8 14 15 9	86364	1 - 4 -	111111	111111		111111	111111	in the s	11111	111111	5 3 4 5 5	2	3	1 4 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	24 45 17 20	10 30 8 9	6 11 2 3	6 1 -	5	- 2	2 -		ī	1 -	-	1 -	3 4 1 2	1111	-	6 -
Artillery Whitechapel	6651 15844 15550 11434 7323 10381 9149	3 10 20 8 7 9 3	3 10 15 4 13 1	1 3 3 - 1	- 1 3 1 1	- - - - 1	131111		11111		1111111		1	1 5 - 1	1 2 -	2 2 1 2 -	8 - 12 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	9 13 6	12 8 8	7 2 -	1 3 2	- 2	-	-	-	-	ī	-	- 1	5 2 1	1 -	1 1 -	- - 4
Shadwell W Ratcliff WH Limehouse W	11623 15930 30025	3 10 23	7 7 13	14	3		1 -	-	-	-	-	=	121	1 2	1	2 -	3 -
Mile End Old Town West Mile End Old Town East WwH	38126 55020	26 48	17 85	5 15	5	2	2 -	_	-	=		1 -	_	4 12	2	3	3
Bow WwHL†	67777 48500	66 25	32 20	12 7	6	1	1 = .	- 2	-	-	-		-,	11 8	- 2	3	6
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Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W	14086 18453 19470 35831 41284 31213 35481 12534	17 9 8 30 25 16 22 5	11 4 10 25 13 8 15 2	3 -4 11 4 1 1	7 2 2 3 1	- 1 1 2 2 6	111111	1	1111111	2 3 1		2 1	11111111	1 2 1 3 1	1111111	1	1 - 10 - 6 -
Clapham HL	27348 53988 19797 9438 14479	11 48 18 6 6	8 33 7 3 6	3 17 4 2 2	2 7 1	ī - -	11111	1111	11111	1 -		1 -	-	8 2 1	1	1 1	4 1 -
Dulwich Camberwell WL†L† Peckham W - St. George Camberwell	4041 31251 42159 33851	2 19 34 22	16 22 19	6 12 7	1 3 4 3	2 1 2		- - 1	1		1111	- - - 1	· <del>-</del>	2 8 8		1111	1 8 1
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	40 3 8 9	24 5 13 13	13 1 9 3	1 1	1 -				-			1111	10 2 7 3	1 3 -	3	- - 5
Eltham - Lee Lee Lewisham Village W Sydenham	4528 16430 11508 19016	2 8 9 17	4 3 10	1 1 6	- 1		-	-	- 2	-		=	1111	2 - 5	1111		1111
Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead, West Plumstead, East W	9503 17229 18319 13028 15290	6 13 16 3 11	3 6 14 7 5	1 8 2 2	111	11111	31111			11111	11111		11111	4 6 2 2	1 8 -	3 -	1

The following are OUTLYING WORKHOUSES (indicated in the Tables by \$\omega\$):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand \_ \_ \_ , , Tottenham-court sub-district.

London City \_ \_ , , Hackney sub-district.

Do. do. \_ , , , Hackney sub-district.

The Strand \_ \_ , , , Hackney sub-district.

London City , , , Bow sub-district.

Stepney \_ , , , Bow sub-district.

The Strand \_ \_ , , , Hackney sub-district.

London City , , , Bow sub-district.

Stepney \_ , , , Bow sub-district.

TABLE 7.—METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GRBENWICH, during the Week ending Saturday, 2d SEPTEMBER, 1871

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											Met	eoro	logic	al C	bse	er
				•	Ozone		:	:		:	:	:	:	- 26		nean
	RAIN.	Collected	Gauge	receiving	above the ground.	Inches	00.00	00.0	00.00	00.0	00.0	0.05	Sum 0.02	35		ve the n
			Robinson's.	Amount of	Movement of Air each day.	Miles.	145	104	177	272	101	82	Sum 11,10	24		Feet abo
		eters.		refoot	Mean of 24 Obs.	lbs.	0.0	0.0	1.0	0.5	0.0	0.0	:	23		be 158
l		Anemon		anbs uo	Least,	lbs.	0.0	0.0	0.0	0.0	0.0	0.0	:	555		ed to
١	WIND.	d from	.9.	Pressure on square foot	Great-	lbs.	0.5	0.8	1.8	1.3	0.3	0.0	:	21		onside
		As deduced from Anemometers	Osler's.		P. M.		NNW.	咸阳	SE. & SSW.	SSW. &	E. & SE.	NNE. & N.	Variable.	50	NOTES.	meter is o
				General Direction.	A. M.		W. by S. & NNW.	SW.&NE.	ESE.	WSW.	SE. & NE.	Calm & NNE. & N.	Vari	19		The height of the cistern of the barometer is considered to be 159 feet above the mean
	Degree	midity,	Satura-	being repre-	sented by 100.		69	66	64	70	74	28	71	18		sistern
	Ed	Between	-	mean tem-	. 0.16		6:1	+ 1.1	+ 4 .3	7.9 +	9.4 +	+ 8.4	+ 4.6	17		ht of the
l	DIFFERENCE	Point	_	.	Least.		1:5	0.5	0.8	1.9	0.5	0.0	2.0	16		e heig
ı	DIFF	Between Dew Point	and	Air Temperature	Great-	-	23.4	23.0	23.6	6.23	22.4	11.2	21.3	15		
ŀ		Betwee	9 1	Marr	daily value.		10.5	11.6	12.6	6.6	9.8	4.1	6.6	14		
			nes at	ch, by	Lowest		o :	0.12	0.09	0.79	0.79	64.0	8.19	13		
l		T- 41- 487	the Thames at	Greenwich, by self-registering Thermometers	Highest, Lowest	-	o :	0.73	0.19	0.29	0.19	0.89	67.2	12	HERE	
ı	ERS.	Lowest	Grass, as	a self- register-	Minimum Thermo- meter.		36.4	37.5	42.6	49.4	41.0	20.0	42.6	11	AND ATMOSPHERE.	
	INGS OF THERMOMETERS.	Highest in		-	60		115.0	137.0	140.9	138.0	132.0	0.901	130.1	10		
١	B OF T	Dew	Point.	Mean	daily b	(	48.0	40.4	54.1	55.5	0.89	0.89	54.1	6	SKY	
۱	READING		Ì		daily value.	-	63	1.0	1.9	£.69	9.99	1.49	64.0	00		
١	H		3.	Range	in day.	(	23.4	30.0	29.3	22.4	82.0 54.1 27.9 66		52.4 25.3	-		
1		è	Dry.	Tich. Com.	est.	-	47.6	46.1	52.7	57.3	54.1	76.9 57.8 19.1		9		
11						-	71.0	76.1 46.1 30.0 6	82.0	1.62			2-22	100	CITY.	
Dino	METER.	Mean	reading	rected and re-	32 degr. Fahren-	i.	30.288 71.0 47.6 23.4 58.	30.247	29.827	59.869	29.913	29.838	29-997	4	ELECTRICITY	
	MOON.		Pheces		Moon.		:	:	Full.		In			00	EL	
-				200		T.	. 27	. 28			.H. 1	61	:	lumns		1
			1871.		ONTH AND DAY.	AUGUST.	NDAY .	ONDAY.	KDN KSDAY	HURSDAY.	SEPTEMBER.	TURDAY.	MEANS	o. of Columns	DATE.	ATOTIOT

for mean daily temperature of the sir, or the numbers exhibited in column 7, include the observations of the day thermometer, read at 9h. Ak.; non; Sh. Ak.; and 9h. P.M., as well as the results deduced from the maximum and minimum thermometers, as defermined by the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that defermined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory, Greenwich, in the 60 years ending 1983. December 31.

\*In reading the InITh column it will be bornen in mind that + is read. \*\* higher," and - "toner," that the average. The results of all the meteorological observations are to be understood as daily values by the application of corrections deduced by James Glaisher, F.R.S., from five years' observations ending 1845, December 31.—28c Phil. Trans., part. 1848. The mean daily years' other various ending 1845, December 31.—28c Phil. Trans., part. 1848. The mean daily dew point and degree of humdilgy are deduced from those mean daily values of the dry and wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. The results The readings of the barometer are considered to be coincident with those of the Royal Society's flint glass standard barometer. The observations are taken at blank, AM; now; \$A, FM, and \$B, FM. The means of the readings of the barometer, the dry theorementer, and the wet theorementer, observed at these times, are converted into mean Very fine; light clouds and haze prevailed during the day, cloudless at night. A fine day; generally cloudless. Haze and fog prevailed in the early morning hours. Solar halo observed shortly before

than the average. The results of all the meteorological observations are to no unuconous applying to the civil day or from midnight to indinght.

The temperature of the water of the Thames is ascertained by the use of self-registering thermometers suspended from the side of the "Sorpion". Police bin, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the superintendence of the resident inspector on board the ship, by permission of Lieut.-Col. Henderson, R. B., C.B., Commissioner of Metropolitan Police.

Fine; partially cloudy. Haze and mist prevailed.

at

Weak positive was shown night.

FRIDAY

Strong positive and negative, with sparks and galvanic currents at 2h. P. M.; a little weak positive afterwards.

SATURDAY .

A fine day; generally cloudy. Fine; generally cloudy.

ir

Weak positive was shown

31

THURSDAY .

the morning and evening.

i,

shown

Weak positive was

30

WEDNESDAY

No electricity was shown.

20

•

TUESDAY

A very fine day, cloudless throughout,

not

The insulating lamp was

27

SUNDAY

Positive, with weak tension in

88

MONDAY

the morning and evening.

The reading of the barometer increased from 30.00 in, at the beginning of the week to 30.31 in. by 9h. A.M. on the 28th; decreased to 29.80 in. by 3h. P.M. on the 81th increased to 29.80 in. by 9h. A.M. on the 81st of August; decreased to 29.86 in. by 8h. P.M. on the same day; increased to 29.94 in. by 9h. A.M. on the 1st of September; and decreased to 29.79 in. at the end of the week. Generally cloudy till night, then variable. Very gloomy between 9h. A.m. and 9h. Sun. A.M. Rain fell occasionally. Hazy through-out. Distant thunder heard in the afternoon, and lightning seen at night.

at Excellent Maiesty. For Her Maiesty's Stationery Office.

#### WEEKLY RETURN

OF

### BIRTHS AND DEATHS IN LONDON

## AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 36. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, SEPTEMBER 9. [Price 1d.

General Register Office, Somerset House, 11th September 1871.

During the week ending Saturday the 9th instant, 4722 births and 3770 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week in these towns was at the

rate of 27 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in Seventeen of the largest English Cities and Towns, ranged in topographical order, were as follow:—London 23 per 1000; Portsmouth 20, Norwich 25, Bristol 19, Wolverhampton 24, Birmingham 31, Leicester 38, Nottingham 28, Liverpool 34, Manchester 41, Salford 44, Bradford 33, Leeds 36, Sheffield 31, Hull 31, Sunderland 44, and Newcastle-upon-Tyne 45. The deaths from small-pox in these towns, which in the four previous weeks had declined from 210 to 150, were 151 last week; of these, 81 occurred in London, 20 each in Newcastle-upon-Tyne and Sunderland, 11 in Manchester and Salford, 5 in Sheffield, and 2 each in Wolverhampton and Nottingham. The fatal cases of diarrhæa, principally infantile, in these seventeen towns, which had been 1213 and 1018 in the two previous weeks, further declined last week to 880; the annual death-rate from this disease last week was equal to 2 per 1000 in Bristol, 4 each in Portsmouth and Wolverhampton, 5 in London, 6 in Sunderland, 7 in Newcastle-upon-Tyne, 8 in Norwich, 9 in Bradford, 10 in Liverpool, 11 each in Nottingham and Sheffield, 12 each in Hull, Birmingham, and Leeds, 15 in Manchester and Salford, and 18 in Leicester.

In Southampton only one death from small-pox was registered last week; the registrar reports that there was no fresh case of attack, and that the Small-pox

Hospital is empty.

In Edinburgh the annual rate of mortality from all causes last week was 21 per

1000 persons living, in Glasgow 26 per 1000, and in Dublin 23.

In Paris 943 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 27 per 1000 of the estimated population. In Brussels 110 deaths occurred in the week ending 2d instant, and the annual death-rate was 31 per 1000. In Rome 134 deaths were registered in the week ending 27th ultimo, and the annual death-rate was 31 per 1000.

In Berlin during the week ending 7th instant, 747 deaths were recorded, of which 207 were referred to infantile diarrhea, 102 to small-pox, and 3 to Asiatic cholera. Dr. Zuelzer reports that the population of this city is rapidly increasing, and estimates it now at about 900,000 persons; calculated upon this number, the

747 deaths last week were equal to an annual rate of 43 per 1000.

Asiatic cholera continues fatally prevalent in Kænigsberg; 26 and 20 deaths

resulted therefrom on 6th and 7th instant, respectively.

In Bombay the deaths registered during the week ending 15th ultimo were 287, and the mortality was at the annual rate of 18 per 1000. In Madras the 256 deaths in the week ending 21st July showed an annual death-rate equal to 31 per 1000 of the population.

In London 2055 births and 1422 deaths were registered last week. After making due allowance for increase of population, the births were 63, and the deaths 3, below the average numbers in the corresponding week of the last ten years.

The 1422 deaths in London last week included 81 from small-pox, 21 from measles, 26 from scarlet fever, 3 from diphtheria, 26 from whooping-cough, 34 from different forms of fever (of which 8 were certified as typhus, 15 as enteric or typhoid, and 11 as simple continued fever), and 293 from diarrhea; thus to the seven principal diseases of the zymotic class 484 deaths were referred last week, against 666 and 541 in the two preceding weeks.

[36.]

During the 34 days ending on Friday last the mean temperature had been almost continuously above the average, and showed throughout that period an average daily excess of 4° 5 upon the temperature in the corresponding period of fifty years. The deaths from diarrhea in London, which had been 487 and 353 in the two previous weeks, further declined to 293 last week; these were, however, 140 above the corrected average number in the corresponding week of the last ten years. Of the 293 last week, 265 were of infants under two years of age, and 18 of persons aged 60 years and upwards. A very large proportion of this excessive mortality from infantile diarrhea is doubtless due to the want of a due appreciation of the paramount importance of proper medical treatment in the early stages of this complaint.

The deaths referred in London to cholera and choleraic diarrhea, which had been 40, 28, and 20 in the three previous weeks, were 24 last week; of these 19 were infantile cases, and 5 of adults. The adult cases included four certified from choleraic diarrhea of 13 days, 4 days, and two of 24 hours duration, respectively; and one in Berwick Street, Westminster, certified as "cholera, 30 hours."

In the past six weeks the fatal cases of small-pox in London have been remarkably stationary, ranging between 96 and 78, and averaging 84. The number last week was 81, an increase of three upon the previous week. After distributing the deaths in hospitals, it appears that 9 belonged to the West group of districts, 27 to the North, 5 to the Central, 22 to the East, and 18 to the South. They showed a decline in the East and South districts last week, but had increased in the North of London; the disease showed the greatest fatality in Islington, Kentish Town, Bethnal Green, and Walworth.

To different forms of violence 32 deaths were referred last week; of these 25 were the result of accident or negligence, including 11 from fractures and contusions, one from burns and scalds, 6 from drowning, and 5 from suffocation. Of the deaths from fractures and contusions one was of a painter, aged 24 years, who died in Guy's Hospital from injuries through falling from a cart. The death of a child, aged three years, was referred to sunstroke. Two cases of infanticide, and four of suicide, were registered during the week.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.75 in.; the highest reading was 29.99 in. on Tuesday morning, and the lowest 29.50 in. on Saturday morning. The mean temperature of the air was 60°·5, or 2°·6 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. On Sunday, 3d instant, the mean temperature was 63°·3, and 4°·9 above the average; an excess also prevailed on each succeeding day of the week until Saturday, when the mean was only 56° 6, and 1° 1 below the average. The highest day temperature in the shade was 76° 3 on Wednesday, the lowest night temperature 46° 6 on Tuesday; the entire range of temperature in the week was, therefore, 29°.7. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 137°·3 on Monday. The difference between the mean dew-point temperature and air temperature averaged 7°·1. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 64°.6 last The mean degree of humidity of the air was 78, complete saturation being represented by 100. The general direction of the wind was S.W., and the horizontal movement of the air in the week averaged 9 miles per hour. Rain fell on six days of the week, to the amount of 0.66 of an inch, of which .53 was measured on Friday and Saturday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 55°·9 in Newcastle, to 60°·3 in Norwich; the lowest recorded night temperature was 44°·0 in Hull, and the highest day temperature in the shade 75°·5 in Norwich. Rain was measured last week in each of these towns; the amounts varied from 0·82 of an inch in Liverpool, to 2·52 inches in Wolverhampton; the rain-fall was two inches in Portsmouth, Birmingham, Sheffield, and Hull.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 15°·8, or 1°·5 above the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 24°·6, the lowest night temperature 8°·1, and the highest temperature in the sun was 58°·5.

The wind blew at the rate of 14 kilometres an hour, and the rain-fall measured 1.68 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 229,733 cubic metres, and at Barking 255,817 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered Last Week, and in the Thirty-sixth Week of Ten previous Years.

Total Births  Males Females .	1768 871 897	1862 1827 922 905	1863 1863 925 938	1939 954 985	1905 973 932	1866 1905 967 938	1867 2038 1064 974	1868 1995 991 1004	1869 2127 1069 1058	1870 1884 1003 881	Weekly Average in 10 Years. 1925·1 973·9 951·2	2055 1027 1028
Total Deaths  Males Females .	1121	1179	1232	1352	1179	1335	1283	1352	1601	1322	1295·6	1422
	555	635	-629	689	595	648	657	684	773	687	655·2	727
	<b>5</b> 66	544	603	663	584	687	626	668	828	635	640·4	695

Note.—The deaths of last week may be compared with the average of deaths in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—Comparative Table of Results in the Last Thirteen Weeks.

		The same of the same of			-		-	CONTRACTOR OF THE PARTY OF THE	THE PERSON NAMED IN		-		
	June 17.	June 24.	July	July 8.	July 15.	July 22.	July 29.	Aug.	Aug. 12.	Aug. 19.	Aug. 26.	Sept.	Sept.
TOTAL Deaths	1349	1296	1328	1200	1259	1281	1420	1382	1568	1715	1682	1485	1422
Deaths under 5 years of age - Deaths 5—20	477 135	495 131	541 135	466 122	507 127	578 97	739 104	706 106	825 125	960 107	967 100	824 86	767 94
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	257 229 204 47	248 196 189 37	238 215 165 34	199 190 185 38,	202 182 197 44	200 212 164 30	203 159 177 38	177 188 165 40	192 193 193 40	187 204 217 40	194 197 180 44	178 184 178 35	189 161 160 51
Deaths from Small-pox	240 21 17 9 29	232 27 24 3 33 6	235 15 16 8 36	164 12 24 4 30	133 22 40 9 23 7	135 17 24 1 28 5	122 18 19 8 22 9	87 18 24 5 25 6	96 28 30 5 41 6	80 19 21 4 30	82 20 24 6 25	78 19 24 9 32 7	81 21 26 3 26 8
, " Enteric (or Ty-) phoid) fever - J " SimpleContafever " " Diarrhea - " " Simple Cholera -	13 6 24	9 7 20 2	11 7 46 2	4 5 39 3	10 6 64 4	9 10 110 9	9 7 201 17	10 4 225 18	13 7 299 15	19 5 425 40	11 7 487 28	15 4 353 20	15 11 293 24
,, Phthisis Bronchitis Pneumonia - Heart Disease	151 90 60 68	131 82 48 55	147 82 38 52	165 59 44 68	148 68 37 48	144 59 40 56	149 48 52 49	152 68 40 65	147 51 34 62	138 53 34 67	.145 .53 .30 .60	164 59 37 61	153 47 38 49
Mean Temperature of the Air	59.5	56·2	56.6	60.5	61.7	65.5	60.4	60.3	68.3	67.1	63.0	64.0	60.5
Mean Temperature of the Water of the Thames -	57.2	56.1	60.4	61.4	63.2	65.6	65.6	63.9	66•4	69.6	70.5	64.5	64.6
Humidity of the Air	85	84	73	76	78	75	75	70	68	69	76	71	78
Rain-fall in inches	1.05	1.50	0.05	0.87	1.51	0.05	0.66	0.23	0.00	0.69	0.09	0.02	0.66

METEOROLOGICAL OBSERVATIONS. (See Table 3,)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich, J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.R.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., Er.M.S., Did Tarlford, Manchester; D. Doncaster, Esq., jun, F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 9th day of September 1871, in the following large Towns.

										-	
CITIES	Area	POPULATION estimated	Persons	Birtes registered	DEATHS registered		ATURE OF	THE AIR.	THE AIR.	RAIN	FAL
BOROUGHS.  (Municipal Boundaries for all except London.)	in Acres.	to the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 9th Sept. 1871.	during the Week ending 9th Sept. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean	Weekly Mean of the Daily Mean	In * Inches.	Ce
yor (000 000 20 12 0 11)		1				ļ	1	Values.	Values.	ļ .	1
Total of 20 Towns in the United KINGDOM -	213,281	7,204,001	33.8	4722	3770	76.3	43.2	58.0	14.44	1.30	3
LONDON	77,997	3,263,872	41.8	2055	1422	76.3	46.6	60.5	15.83	0.66	13
PORTSMOUTH:	9,513	113,450	11.9	57	43	75.2	48.2	60.0	15.26	2.15	5
Norwich	7,472	80,533	10.8	57	39	75.5	46.0	60:3	15.72	0.84	2
BRISTOL	4,688	183,298	39.1	133	67	mark 1	-	2			-
WOLVERHAMPTON -	3,387	68,476	20:2	48	81	71.2	44.9	57.3	14.05	2.25	6
BIRMINGHAM	7,831	344,980	44.1	233	206	72.0	44.4	57.6	14.22	2.00	5
LEICESTER	3,200	95,882	30.0	. 74	69	_		-		-	-
NOTTINGHAM	1,996	86,929	43°6	55	. 47	74.0	45.5	58.9	14.94	1.46	3
LIVERPOOL	5,108	494,649	96:8	334	318	68.8	47.7	57'3	14.05	0.85	2
MANCHESTER	4,486	356,099	79.4	291	280	73.0	46.0	57.7	14.28	1.10	2
SALFORD	5,172	125,422	34.3	103	106	70.8	45.8	56.5	13.61	0.88	2
BRADFORD	6,590	146,987	22.3	99	92	70.0	48.2	57.7	14.28	0.88	2:
LEEDS	21,572	260,657	12.1	189	182	71.0	45.0	56'9	13.83	1.39	3
SHEFFIELD - :	22,830	241,507	10.6	177	144	71.0	44.0	57.8	14.33	1.95	4
Harri	3,562	122,266	34*3	80	73	74.0	44:0	58.7	14.83	1.97	5
SUNDERLAND	3,306	98,797	29*9	101	84	-,	-	small .			-
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	84	111	6610	48.0	55.9	13.28	1.08	2
EDINBURGH	4,427	201,728	45.6	108	81	6810	48.0	58*5	14.72	0.60	1
GLASGOW	5,063	479,227	94.7	307	237	66.0	50°5	57.7	14.28	0'05	0.
DUBLIN	9,745	310,565	31.9	137	138	71:9	43.2	. 57'4	14:11	1.61	4
The state of the s								,			_

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by add 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs sho a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Weending Saturday the 9th day of September 1871.

	ANNUAL		1		Th	he DEAT	cus reg	istered	in the	Week i	nclude	4.1	
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhes.	Violence.	Inquest Cases.
Total of 17 Towns -	28	3314	1361	432	151	40	64	6	51	106	880	87	140
LONDON	23	1422	514	211	81	21	26	3	26	34	293	32	63
PORTSMOUTH	20	43	23	7	1	-	_	_	- 1	.1	9	-	1 - 1
NORWICH	25	39	16	8	1	-	-	1		2	12	-	- 17
BRISTOL	19	67	18	- 13	-	-	1	-	-	4	8	2	3
WOLVERHAMPTON -	24	31	- 9	17	2	2	1	200	1	2	5	_	1
BIRMINGHAM -	31	206	105	23	-	4	2	1	3	1	78	9	12
LEICESTER	38	69	38	- 6	1-	-	-	-	_	4	33	-	5
NOTTINGHAM	28	47 -	19	9	2	-		===	1	3	18	1.	2
LIVERPOOL - ;	34	318	148	45	7	41	15	1	6	15	92	11	11
MANCHESTER	41	280	131	22	5	-	5	-	2	8	106	5	11
SALFORD	44	106	39	8	6	- 1	-	-	1	4	35	5	5 -
Bradford	33	92	43	10	-	1	1	-	3	3	24	2	4
LEEDS	36	182	84	19		2	3	_	2	8	60	2	5
SHEFFIELD	31	144	58	12	5	3	6	-	2	3	51	10	11
HULL	31	73	40	9	1	1	1		_	2	27	1	1
SUNDERLAND	44	84	32	13	20	-	3			10	12	2	3
NEWCASTLE-ON-TYNE -	45	111	44	10	20	2	-	- /	3	2	17	5	3
DUBLIN	23	138	30	35	2	ím	1	·	2	9	17	2	3

TABLE 5 .- DEATHS in LONDON Registered in the THIRTY-SIXTH Week of the Year 1871.

TABLE 31-1	JUALIIS	111 1	JONI	JON	100	gra	LCIC	W 111	the THIRTY-SIXTH Wee	K OI t.	ne re	car	101	1.			
	Week Week 1861-70.	Sat	In t	he W y, Se	eek pten	endi iber	ng 9, 18	71.	•	f the Week 1861-70.	Sat	In thurday	he W	eek ptem	endi ber	ng 9, 187	1.
	s of that wars 186		Deat	hs of	Per Age	sons	of			s of the xth W		Deat	the of	Per Age	sons	of	
CAUSES OF DEATH.	Averages of t Thirty-sixth V	ALL AGES.	Un		r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages of Thirty-sixth V	ALL AGES.	Und		r 40.	r 60.	r 80°	and
	Thii in the	Mean		-	under	under	unde	Tears tupwards.		Thir in the	Mean		-	under	under	nnde	Years a
Mean Temperature -	61.3	Tem.	0-5.	5-20.	20 and	40 and	60 and under	80 Ye upw	Many Wannanahana	61.3	Tem. 60.5	0-5.	5-20.	20 and	40 and	60 and under 80	upw.
ALL CAUSES	1295.6	1422	767	94		161			Mean Temperature -  9. Stricture of Intestines -	•7	3	0	1	- 24		2	_
SPECIFIED CAUSES	1287 1	1421	766	- 1	189	- 3			10. Fistula	5·8	9	3	-	3	2	1	-
I. ZYMOTIC DISEASES.									13. Hepatitis	2°6 4°7	3 3	1	-	1 8	1	1 1 5	1
ORDER 1.  1. Small-pox	12*1 25'7	81 21	24 21	25	27	5	=	- 7	15. Liver Disease, &c 16. Spleen Disease, &c ORDER 5.	16.3	20	Ξ		-	11	-	-
3. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy	85.6 9.8 1.0	26 3	19	7	-		-	-	1. Nephritis	1.3	1 - 5	Ē	-	1	-	-	-
6. Čroup	11.7 32.6	12 26 8 15	11 25	1 3	- 1	[3]		-	3. Bright's Disease (Nephria) 4. Diabetes	8'7 '9 '72"	1	I	1 -	3	1 1	-	-
- Enteric or Typhoid Fever - Simple continued Fever - 9. Erysipelas	49.7	15 11 6	7	5 2	8 94 -	2 - 2	1 - 8	-	6. Cystitis 7. Kidney Disease, &c	1·3 6·2	8	ĩ	=	ī	5	1	-
10. Puerperal Fever (Metria) 11. Carbuncle 12. Influenza	2.7	6 - 2	2	ī -	5	1 1 1	_	-	ORDER 6. 1. Ovarian Dropsy 2. Uterus Disease, &c	*8 2:7	1 2	-	-	1 1	1	-	- 1
13. Dysentery	3'1	293	1 273		- 1	2	2 15 2 -	3	ORDER 7.  1. Synovitis (Arthritis) -								
16. Ague	24 0	24	19	-7.	-		-	-	2. Joint Disease, &c	4.7	7	. <u>1</u>	3	2	1	_	
18. Rheumatism 19. Other Zymotic Diseases - ORDER 2.	5.5	9	ī	-	3 -		6 -		1. Phlegmon	1.3	3	- 1	-	-	2	1 -	-
1. Syphilis 2. Stricture of Urethra - 3. Hydrophobia	6.8	6	4 -	-	-	2			3. Skin Disease, &c IV. DEVELOPMENTAL	1.2	2	2		_	_	_	
4. Glanders ORDER 3.	. 1	=	=			=	_		DISEASES. ORDER 1.								
1. Privation 2. Want of Breast-milk 3. Purpura and Scurvy	10.5	ıĩ	11	-			=	-	1. Premature Birth 2. Cyanosis 3. Spina Bifida	20.0	27 1 1	27 1 1	-	-	=	-	
4. Alco ( a Del. Tremens - holism ( b Intemperance -	1.6 2.4 1.0	2 -	-	- 1	Ţ	2	Ξ	-	4. Other Malformations - 5. Teething	10.1	11	1 2 11	_		_	=	
ORDER 4. 1. Thrush	5.7	10	10	=	-	-	=	-	ORDER 2.  1. Paramenia 2. Childbirth (see Puerperal)		-	۹	-	-	-	-	۱
I. CONSTITUTIONAL DIS- ORDER 1.			Г						Fever)	6.1	3			3	_	-	
1. Gout	11.9	1 13 19	-	2	3	2 12	5	1	1. Old Age ORDER 4.	39.4	41	-		-	-	12	29
4. Cancrum Oris (Noma) - 5. Mortification	25.6 .3 3.1	1 3	1	-	3 -	-	4 - 2	1	1. Atrophy and Debility -	76.6	91	82	_1	1		7	٥
ORDER 2.  1. Scrofula  2. Tabes Mesenterica	8.8	6 25	6 25	-	-	-	-	Ŀ	V. VIOLENT DEATHS, &c. ORDER 1.								
4. Hydrocephalus	153·7 25·7	25 153 80	25 15 25	12 5	83	38	5	-	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions 2. Wounds	14:7	11	-	2	4	3	1	1
III. LOCAL DISEASES. ORDER 1.									3. Burns and Scalds 4. Poison 5. Drowning	4·2 ·9 7·3	$\frac{1}{6}$	E	1 - 3	- 1	- 2	-	Ē
1. Cephalitis	11.6 31.0 25.6	19 86 25	11 10	2	3 4	9 7	1 8 10	44	6. Suffocation 7. Otherwise	5.8	5 2	5	0 1	1	=	-	٥
4. Insanity	1.5	- 5	-	- - 1	- 2	-	1	-	ORDER 3. (Homicide.)								
7. Convulsions 8. Brain Disease, &c	41.0 14.8	41 10	40	1	2	2	4	-	1. Murder and Manslaughter ORDER 4.	2.6	2	2			Ē	_	-
1. Pericarditis 2. Aneurism	1.5 2.3	=	-	+ +	-	-	-	-	(SUICIDE.)	.,							
3. Heart Disease, &c ORDER 3. 1. Larvngitis	3:7	49	2	3	7	10	26	1	1. Wounds { Gunshot - Cut, Stab - 3. Drowning	1.2 1.2	1 -		-	1	1	=	Ē
1. Laryngitis 2. Bronchitis 3. Pleurisy 4. Pneumonia	53°4 1°8	3 47 1	19	- 10	2 - 2	5 1	18	3 -	4. Hanging	1:2	1	E		=	ī	=	-
5. Asthma	41.6 3.8 9.6	38 8 6	22 - 3	2 -	3	9 2 2	5 -	- 1	ORDER 5. (Execution.)								
ORDER 4.  1. Gastritis	1°3 5°9	9	- 2	4	-		- 2	-	1. Hanging	-	-		_	_		-	-
3. Peritonitis	4·3 3·1 3·0	6 3	3 2 -	1 -	1	1 1	1 2	-	Violent Deaths (not classed) Sudden Deaths (Cause un-)	*5	1		-	-	1		-
6. Hernia 7. Heus 8. Intussusception	2.7	1 4 5	3	1	3		- 1	1	ascertained) Causes not specified or ill-	6.0	1	1	-	-	-	-	-
or Themsenscoping	9		] ~		-	-	-	-	denned )								

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

# 306 Population, Total Births and Deaths, and Deaths from some Zymotic and other Cause.

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-Pox, Measles, Scarlet during the Week ending

	1	l to	bo		-		The	DEATI	IS TOO	zistere	d in t			_	.,	z enc	8
	Enume-	during	during	-	1		J.He .	LATI	10 108		III E		OA III	Zude			
REGISTRARS' SUB-DISTRICTS.	rated Popu- lation, 1871.	Total BIRTHS d	Total DEATHS of the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria,	Whooping-cough	Typhus.	Enteric (or Typhoid) Fever.	Simple con-	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	3,251,804	2055	1422	514	211	81	21	26	3.	26	8	15	11	293	32	63.	226
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS SOUTH DISTRICTS	751,668 333,887	336 448 198 419 654	214 336 145 295 482	76 107 38 118 175	38 47 21 86 69	4 43 8 14 17	4 1 4 6 6	6 12 - 2 6	1 1	4 6 4 1 11	2 4 1 1 -	1 3 2 3	1 2 3 5	40 62 21 70 100	4 7 4 11 6	18 16 7 15 7	41 75 24 44 .42
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Brompton H - St. Peter Hammersmith H - St. Paul Hammersmith H - Fulham WLLLL - Chelsea North-west HWw - Chelsea North-west HWw - Chelsea North-west HWw - Chelsea North-west HWw - St. John Westminster HHH - St. Margaret Westminster HHH - St. Margaret Westminster HHH - St. Margaret Westminster WWHH St. James's Square - Golden Square W - Berwick-street - St. Anne Soho HH -	38082 91883 28661 6662 36030 23378 26419 23278 21389 18700 13020 18020 27640 10453 12855	29 15 88 14 3 32 13 12 15 17 7 6 27 21 15 3 4	28 7 43 10 1 13 16 12 14 8 7 4 12 13 15 3 5	11 2 15 4 1 4 7 8 6 4 4 1 1 5 8 - 1 1 8	5181-22 42-21-5 1211	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 11 11 11 11 11 11 11 11 11 11 11	711171 771 11111 171	1 11 11 11 11 11 11 11 11 11 11 11 11 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE THE THE THE THE	1	6-43-47-3141		3 1 - 2 1	72883 - 1 12 519 - 2
North Districts.  All Souls Marylebone HH - Cavendish Square Rectory Marylebone WH - St. Mary Marylebone H - Christehurch Marylebone - St. John Marylebone - Hampstead WHH - Regent's Park Pancras - Tottenham-court wH - Gray's int Lane H Sounder Town W - Camden Town W - Lelington West* WHHH   Islington East Www - Stoke Newington L Stamford Hill - West Hackney - Hackney WwHL - South Hackney L	21795 3892 38110 32271 88192 29360 29216 38562 18066 68198 97801 115948	14 5 20 7 17 18 16 18 26 23 19 11 36 60 94 7 22 23 22 15	18 5 12 12 10 9 26 14 12 19 15 11 23 43 89 8 27 13	4 1 2 2 2 3 5 10 2 6 8 8 8 14 16 4 -2 9 6	2 - 3 3 1 1 2 2 2 1 - 2 2 7 10 2 2 1 2 2 2	14 1 3 6 1 1 6 1 1 6 1		39 1 7 31 1 7 1 1 1		2 - 1 1 1 - 1 1	1 2 1	1 - 1 - 2		311132 8 6 - 53 - 4 62 2 - 272	2 - 1 - 1 2	1 21 21 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 5 - 15 - 4 5 - 6 5 7 4 - 17 - 17 -
St. Botolph East London HH	16197 11323 9881 9876 10711 20021 18528 9051 18912 18912 16290 16220 12156 18291 18291 18290 10132 14434 13639 7662 11184	8 22 8 5 5 6 8 6 9 4 12 9 8 5 5 4 22 5 3 16 10 11 5 2 2 1 2 2 2	6 7 5 6 6 5 3 8 8 6 6 12 3 9 8 8 3 6 6 5 7 7 6 1 10 8 11 1 1 - 6 6 1 1 2	1333 1 - 122 24 43 22 23 1 - 1 1 1	2221 1 1 1 1 3 - 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(11 1911 9 FEFF CONTROL LIBERTY		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				132 1 - 3 - 1 21 - 111 12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	777100

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

#### Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 307

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLENCE, &c., registered in each Sub-district Saturday, 9th September 1871.

Saturday, 9th September 1871.		bn I	an l		_		The T		a manie	tono.d	in the	Was	le inal	ndo.	_	_	_
	Enume-	during	during	44	0		rne L	HTA	s regi	stered	in the	1	k incl	uae			
REGISTRARS'	Popu-	тнв б.		ear of	Years of Age and upwards.			Fever.	2	gnoo-		Feve	con- l Fever.			Саяев.	Public Insti- utions.
SUB-DISTRICTS.	lation,	Вівтня Week.	DEA	r 1 Y	ars o	l-pox	les.	et Fe	theria	ping	us.	ric (c	le colled Fe	hea.	nce.	est Ce	ablic ons.
	1871.	Total	Total DEATHS the Week.	Under 1 Year Age.	60 Ye and	Small-pox.	Measles	Scarlet	Diphtheria	Whooping-cough	Typhus.	Enteric (or Typhoid) Fever	Simple	Diarrh	Violence.	Inquest	In Public tutions
East Districts.									_								
Holywell Shoreditch	12429	5 10	9	5 3 3	-	-	-	=	-	-	-	-	-	3	-		Ŀ
Hoxton New Town w Hoxton Old Town	16545 27832 26944	17 19	8 7	5	3	1		27		-			_	3 1 5		-	2
Haggerstone West $W$ Haggerstone East $$	24153 19257	16 20	16	3	3 -	= :	=	=	-	-	-	-	-	5	-	-	7
Hackney-road Green, Bethnal Green WHL†	29808 42443	20 30	15 25	7 12	3 2	3	-	-	-	-	-	ī	1	6 9 1	=		4
Church, Bethnal Green Town, Bethnal Green	26574 21375	16 15	5 11	1 3	1 2	ī	-	=			-	=	ī	1 -	- 1	_	-
Artillery Whitechapel	6651 15844	5	2 8 14	1 5	1 2	-	=	=	Ξ	=		-		1 3 2 1	ī	1.	- - 4
Mile End New Town W Whitechapel North Whitechapel Church H	15550 11434 7323	4 4	14 2 12	1 1		-		=	-	=	-	1 -	1 -	_	3	1 - 2	12
Goodman's Fields Aldgate	7323 10381 9149	12	4 2	4 1	-	= '	-		-	-	-	-	-	2 -		=	-
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	13 12 8	7 5 9	3 4 -	3 - 2	1 2	1 1 -	ī	-	-	-	1 -		- - 2	1 - 1	1 1	- 3
Shadwell $W$ Rateliff $WH$ Limehouse $W$	11623 15930 30025	7 4 19	5 4 15	1 1 7	- 2	ī 1	- 1 1	17.00		=	113			1 -4	-	ī.	
Mile End Old Town West Mile End Old Town East WwH -	38126 55020	28 43	16 22	7 10	1 4	- 2	2	=	-	1 ~	-	- '	-	4 8	-	ī	- 2
Bow WwHLt	67777 48500	42 41	42 15	16	6	1	-	ī	-		ī	-	-	5 2	4	6	10
South Districts.																	
Christchurch Southwark W St. Saviour Southwark H	14547 15667	8 11	3 4 18	2		1	- 2	- ī	-	1 -		-	-	1		-	1 -
Kent-road	20430 16694 18959	8 6 9	11 3	1 2 8 6 2	1	Ξ.	2		.=	1	-	-	-	6 2 1 3	Ξ.	=	ī
Refulction  Borough-road WH	23678 48282 16786	18 39 15	9 32 4	8 -	5	4	=	1	7 - 1	1 -	-	=	_	3 4		=	13
St Olave Southwark H	4157 10595	2 5	9 5	- 2	1		_	.2	-	=		1	_	-	2	3	7
Leather Market	16785 15707	16 11	6 5	3 3 5	- 2	=	=	-	=	-	=	-		ī	Ē.	-	1
St. Mary Magdalen W St. James Bermondsey Rotherhithe W	47921 25873	45 19	9	5 -	5	-	-	ī	-	-	-	-	-)	4,	ī	ĩ	
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st	14086 18453 19470	8 23	6 7	1 2	1	, 2	-	-	-	ī	-	-	-	2 -		-	1
Lambeth Church 2nd W	19470 35831 41284	16 19 20	9 12 17	5 6 5	2	1	-	-	=	2	_	1 1	-	4 2 2	1 -	1 -	- 1
Kennington 1st W	31213 35431	21 18	17 17	6 6 2	3 1	1 6	ī	1	1-	1	=		2	2 3	-	-	- 6
Norwood W	12534 27348	13 12	3 12		2	1	-	-	7	ī	-	-		3	-	1	
Battersea W Wandsworth HL	53988 19797	33 6	25	5 9 4	5 -	1		1	=	1	=	-	1	4	1	-	4 1
Putney	9438 14479	17	5	3	ī	-	=	-	-	-	_	-	-	2	ī	1	
Dulwich - Camberwell WL+L+ Peckham W	4941 31251	18	7	3	1	-	=,		-	ī	-	-			-	111	A
St. George Camberwell	42159 83851	36 22	17 12	10 5	3	-	₹,	- 79	-	-	_	-	-	5 3		-	E
St. Paul Deptford	53696 6487 21098 19320	48 1 13 11	31 5 12 15	14 3 7 6	4 1 2 4	1111	1 -	1111		1	1111	1111	Ĭ. I.	8 2 4 2	1111	1111	3
Eltham	4528 16430	1 9	1 6		- 2	=		1-	-	-	-	1	-	1	-	-	
Lewisham Village W Sydenham	11508 19016	5 12	8	2 2 5	5 2	=	-	=	=	= ,	-	1	-	1 2	1 1	-	
Charlton H	9503 17229	3 14	12	6	2		-	-		=	-	=	1	1 8	-	-	- 2
Woolwich Arsenal H	18319 13 28 15290	14 5 13	15 9 6	6 5 5 4	1 -	-	-	111			-	1 -	-	7 5 4		- 1	- -

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

Holborn Workhouse is in Hoxton New Town sub-district.

London City ", " | Mile End Old Town Eastern sub-distr. and |
Stepney - ", Bow sub-district. |
Bow sub-district.

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand - , , Tottenham-court sub-district.

London City - , , Islington East.

Do. do. - , , , Hackney sub-district.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL UBSERVATORY, GREENWICH, during the Week ending Saturday, 9th September, 1871.

3										A	1ete	ore	ologi	cal	Obs	erv	ations.
ı					0 <b>z</b> 0		: :	:	:	:	::	-	:	56		mean	dry dry nean five
	RAIN.	Collected in a	Whose	surface is 5 in.	above the ground.	Inches	0.10	00.0	10.0	0.01	0.58		99.0	25		ve the r	at 9h. 4 ter, the d into 1
		Robinson's.	Amount of	Horizontal	of Air each day.	Miles.	282	164	189	261	240	-	Sum 1504	24		feet abo	Consider to the contention was a most considered at the dry readings of the barometer, the dry these times are converted into mean dry James Chaister, F.R.S., from five
ı		ers.	re foot.	Mean	of 24 Obs.	lbs.	0.5	0.0	0.5	0.5	0.0	-	:	23		be 159	of the es, are
ı		emome	onsdna		Least.	lbs.	0.0	0.0	0.0	0.0	0.0		:	22		ed to	observadings se tim
ı	WIND.	from Ar	Pressure on square foot.	Gyont	est.	lbs.	7 9 7	0.3	2.1	1.6	4.8		:	21		nsider	at the
		As deduced from Anemometers.	General Direction.		P.M.	CW	S. & SW.	WSW. &	E, SE, &			i Tr	W.	20	NOTES.	ometer is co	under dearmeter. The observations are taken at the transfer of the readings of the barometer, the dry beneaved at those times, are converted into mean corrections deflueed by James Glaisler, P.R.S., from five
ı	·		General 1		A.M.	CAT	SSW.	SW.	Calm & ENE.	WSW.	SSW. &	SULT.	SW	19		The height of the cistern of the barometer is considered to be 159 feet above the mean	of the Royal Society Sitting gass standard barometer. The observations are taken at 8h. A.M.; noon; Sh. P.M.; and 9h. P.M. The means of the preadings of the barometer, the dry thermometer, and the west thermometer, observed at these times, are converted into mean daily values by the application of corrections deflueed by James Glassker, F.R.S., from if ye
ı	Degree	midity,	tion		by 100.	2	19	11	82	72	78		78	18		cistern	fint gl fint gl d 9h. P ne wet t
Under the Superintendence of the Astronomer Koydi.	i i	Between mean tem-	the day and	perature of	on an average of 50 years.*		+ +	+ 3.0	+ 3.6	+ 4.7	1-1-1		+ 2.6	17		ght of the	ferth of the sea. The readings of the Royal Society's fint glass moon; 3h. P.W.; and 9h. P.W.; thermometer, and the wet ther daily values by the application.
ronom	DIFFERENCE	Point re	ure.		Least.	08	0.0	0.0	0.0	1.3	0.0	1	8.0	16		he hei	he Roy n; 3h rmome y valu
he Ast	DIF	Between Dew Point Temperature	Air Temperature.	Great-	est.	0	15.5	21.9	15.8	20.7	14.6		16.5	15		Ton	
rce of t		Betwe	Air 7	Mean	value.	0	6.4	9.6	5.2	0.6	0.0		1.2	14			d. A.M
intender		in the Water of	ich, by	meters.	Lowest.	000	0.89	62.3	62:5	62.6	64.0	-	63.1	13			Generally overcast after 10h. A.M.
e Super		In the Water of	Greenwich, by self-registering	Thermometers,	Highest, Lowest.	0,	9.99	0.99	2.99	0.99	65.8		1.99	12	PHER		overcast
Inder th	TERS.	Lowest on the Grass, as	shownby a self-	register- ing	Thermo- meter.	0,	46.8	40.5	36.1	48.0	44.0		44.0	111	AND ATMOSPHERE.		enerally dagain a
2]	READINGS OF THERMOMETERS.	Highest in the sun, as	a self-regis- tering Thermo-	meter with	bulb in vacuo, placed on the Grass.	000			118.0		125.2	,	122.0	10	SKY AND		Fine in the morning, Generally overess
	. 30 SD.	Dew Point.	Mean	daily	value.	0.			56.0	-	49.7		53.4	6	202		the me
	READIN		Range Mean	daily	value.		60.5	0.19	61.5	62.5	56.6		2.09	00			ne in
	ı	Dry.	Range	ü	day.	0	17.2	24.7	29.7	19.7	8.91	1	19.9	1			
		Q	_	Low-	est.	00	54.8	50.9	76.3 46.6	55.3	0.19		52.7	9			in the
				High-	est.	0	72.0	12.6	6.94	75.0	8.29		72.6	20	CITY.		shown
	BARO-	Mean daily reading	rected	duced to	Fahren heit).	in.	29:703 73:2 59:0 14:2 63:3	29.948	29.810	29 830	29.599 67.8 51.0 16.8 56.6		29.747	4	ELECTRICITY		ositive
	Moon.		Phases	Moon.			: :	:	Last	Apogee	Greatest	Dec. M	:	80	E		Weak positive shown in the
				DAY.			 ∞ 4		9 🔻					mus.	-	ار	0
		1871		MONTE AND DAY.		SEPTEMBER.	NONDAY	TUESDAY	WEDNESDAY	THURSDAY.	FRIDAY. SATURDAY		MEANS	No. of Columns.	DATE.	SEPTEMBER	SUNDAR .
			-	-			-	-	-				-	-	-		

the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the thermometrical observations taken the Royal Observatory, Greenwisch, in the 50 years ending 1863, December 31. \*In reading the 17th column it will be borne in mind that is read "higher," and "fonce," than the average. The results of all the meteorological observations are to be understood as for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 91. A.M.; noon; 31. P.M.; and 91. P.M., as well as the results deduced from the maximum and minimum thermometers, as determined by years' observations ending 1845, December 31.—See Phil. Trans., part 1, 1848. The mean daily dew point and degree of humidity are deduced from those mean daily values of the dry and wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. Forgy in early morning. Generally cloudy throughout. Frequent fusines of lightning at night. Rain fell occasionally after \$91, Pa. Nearly cloudless till 9h. A.M. Overcast at '11h. A.M., and continued so during the remainder of the day. Rain fell almost A fine day. Amount of cloud variable till night. Cloudless after 7h. P.M.

continuously from noon till 9h. P.M.

weak tension, portion of the

Positive, with

WEDNESDAY

Occasional weak positive.

TUESDAY MONDAY

4 10 9 Weak positive in morning and at night.

-

THURSDAY

A little weak positive at 9h. A.M. Nothing shown at other times. No electricity was shown,

00 6

FRIDAY

SATURDAY

The temperature of the water of the Thames is ascretained by the use of self-registerine thermometers, suspended from the side of the 'So.pion' Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the superintendence of the resident inspector on board the ship, by permission of Lieut.-Col. Henderson, R.E.A. C.B., Commissions of Metropolitan Police and the parameter decreased from 29.79 in, at the beginning of the week to 29.86 in, by 9h. A.M. on the 4th; increased to 29.99 in, by 9h. P.M. on the 5th; decreased to 29.70 in, by 9h. P.M. on the 5th; decreased to 29.70 in, by 9h. P.M. on the 5th; decreased to 29.70 in, by 9h. A.M. on the 6th; and was 29.76 in, at the end of the week. applying to the civil day, or from midnight to midnight, Rain fell heavily from 6h. A.M. till 9h. 40m. A.M. Overeast till 1h. A.M. The clouds gradually decreased in amount towards night, and the sky became cloudless at 9h. v.M. and Tain fell between 12h. and 1h. A.M. Cloudless at 6h. A.M. Small amount of leady present during the day. Aurora at night. Lightning seen about 9h. 45m. P.M. A.M. Overcast throughout. Rain fell between 8h. 50m. 9h. 35m. A.M., and again from 7h. 15n. P.M. till midnight.

GR B. EVER and WILLIAM SPOILISWOODE, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Office.

## WEEKLY RETURN

### BIRTHS AND DEATHS IN LONDO

AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 37. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, SEPTEMBER 16. [Price 1d.

General Register Office, Somerset House, 18th September 1871.

During the week ending Saturday the 16th instant, 5255 births and 3875 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week in these towns was at the

rate of 28 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in Seventeen of the largest English Cities and Towns, ranged in topographical order, were as follow:—London 23 per 1000; Portsmouth 22, Norwich 39, Bristol 24, Wolverhampton 35, Birmingham 31, Leicester 40, Nottingham 34, Liverpool 34, Manchester 41, Salford 41, Bradford 31, Leeds 43, Sheffield 36, Hull 31, Sunderland 51, and Newcastle-upon-Tyne 41. The fatal cases of diarrhea, principally infantile, in these towns, which in the three previous weeks had been 1213, 1018, and 880, rose again last week to 916; the annual death-rate from this disease last week was equal to 3 per 1000 in Bristol, 4 in London, 5 in Portsmouth, 6 in Wolverhampton, 7 in Sunderland, 9 each in Newcastle-upon-Tyne and Hull, 10 in Liverpool, 11 each in Nottingham and Bradford, 13 in Sheffield, 14 each in Birmingham and Leicester, 15 in Manchester and Salford, 16 in Leeds, and 17 in Norwich. The deaths from small-pox in these seventeen towns, which in the two previous weeks had been 150 and 151, declined to 120 last week; of these, 57 occurred in London, 20 each in Newcastle-upon-Tyne and Sunderland, 9 in Manchester and Salford, 3 in Leeds, and 2 each in Birmingham, Bristol, and Nottingham.

In Edinburgh the annual rate of mortality from all causes last week was 19 per

1000 persons living, in Glasgow 25 per 1000, and in Dublin 24.

In Paris 827 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 24 per 1000 of the estimated population. In Brussels 111 deaths occurred in the week ending 9th instant, and the annual death-rate was 31 per 1000. In Berlin during the week ending 14th instant, 718 deaths were recorded, of which 115 were referred to small-pox, 186 to infantile diarrheea, and 5 to Asiatic cholera; the annual death-rate was equal to 42 per 1000. In Vienna the 361 deaths in the week ending 9th instant gave an annual rate of 30 per 1000. In Rome 136 deaths were registered in the week ending 3d instant, and the annual death-rate was 32 per 1000.

In Konigsberg the fatality from Asiatic cholera increases; 52 deaths were reported from this disease on 14th instant. The fatal cases in the city between

26th July and 31st August were 837.

In the City of New York 537 deaths were registered in the week ending

26th ultimo, and the equivalent annual rate of mortality was 30 per 1000.

In Bombay the deaths registered during the week ending 22d ultimo were 291, and the mortality was at the annual rate of 19 per 1000. In Madras the 24d deaths in the week ending 28th July showed an annual death-rate equal to 30 per 1000 of the population.

In London 2211 Births and 1422 Deaths were registered last week. After making due allowance for increase of population, the births exceeded by 58, and the deaths by 55, the average numbers in the corresponding week of the last ten

vears.

The 1422 deaths in London last week included 57 from small-pox, 16 from measles, 32 from scarlet fever, 8 from diphtheria, 32 from whooping-cough, 47 from different forms of fever (of which 11 were certified as typhus, 25 as enteric or typhoid, and 11 as simple continued fever), and 268 from diarrhea; thus to the seven principal diseases of the zymotic class 460 deaths were referred last week, against 666, 541, and 484 in the three preceding weeks. The fatal cases of

[37.]

enteric fever showed an increase upon recent weeks, while those of diarrhea and small-pox had declined; enteric fever showed some prevalence in Marylebone.

The mean temperature during the six weeks ending last Saturday was 64°·3 and almost continuously above the average, showing during that period an average daily excess of 4°·5 upon the corresponding period in fifty years. The deaths from diarrhæa in London, which had been 487, 353, and 293 in the three previous weeks, further declined to 268 last week; these, however, exceeded by 149 the corrected average number in the corresponding week of the last ten years. Of the 268 last week, no less than 244 were of infants under two years of age, and 13 of persons aged 60 years and upwards. The want of proper medical treatment in the earlier stages of this complaint is doubtless the cause of a large proportion of this mortality from infantile diarrhæa; parents and nurses have yet to learn the absolute necessity for this early treatment, especially at this season of the year.

The deaths referred to cholera and choleraic diarrhoea, which had ranged between 40 and 20 in the four previous weeks, declined to 15 last week, only five being adult cases; of these, 4 were certified as choleraic diarrhoea, and one

as English cholera.

The importance of the quality of the London water supply during the prevalence of choleraic and diarrheal mortality can scarcely be over-rated. Dr. Frankland, F.R.S., reports that having this in view he has instituted, in addition to his monthly Reports, a weekly examination of the water delivered by each of the seven Metropolitan Companies which draw their supplies either wholly or partly from the rivers Thames and Lea. It is satisfactory to learn that "on the 4th and 11th instant all these companies were supplying water which was efficiently filtered."

The fatal cases of small-pox in London, which in the six previous weeks had been remarkably stationary, and had averaged 84, declined last week to 57; of which, 6 belonged to the West group of districts, 13 to the North, 2 to the Central, 17 to the East, and 19 to the South; except in the South of London these numbers showed a marked decline upon those in recent weeks. This disease showed the

greatest fatality last week in Islington and Bow.

To different forms of violence 38 deaths were referred last week; of these, 31 were the result of accident or negligence, including 18 from fractures and contusions, one from burns and scalds, 6 from drowning, 3 from suffocation, and one from poison. Of the deaths from fractures and contusions, 4 were caused by horses or vehicles in the streets, including one of a boy, aged 12 years, killed on the Brixton tramway. One case of manslaughter, and 6 of suicide, were registered during the week.

In the large Public Institutions of the Metropolis 221 deaths were recorded last week, or 15.5 per cent. of the total deaths; of these 98 occurred in Workhouses and 119 in Hospitals. Four of the deaths in Hospitals were of patients admitted

from districts outside the London area.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.97 in.; the highest reading was 30.12 in. on Thursday morning, and the lowest 29.70 in. on Sunday night. The mean temperature of the air was 62°.6, or 5°.3 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature again showed an excess on each day last week; the warmest day was Monday, when the mean was 65° 9 and 8° 3 above the average, and the coldest was Thursday, when the mean was 59° 6 and the excess 2° 4. The highest day temperature in the shade was 78°·6 on Monday; the lowest night temperature 52°·5 on Sunday; the entire range of temperature in the week was, therefore, 26°·1. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 132° · 6 on Sunday, 10th instant. The difference between the mean dew-point temperature and air temperature averaged  $9^{\circ} \cdot 7$ . mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 63° 4 last week. The mean degree of humidity of the air was 71, complete saturation being represented by 100. The general direction of the wind was N.E., and the horizontal movement of the air in the week averaged 12 miles per hour. No rain fell during the week in London.

The mean temperature of the week in the other large English towns furnishing returns ranged from 53°·0 in Newcastle-upon-Tyne, to 61°·6 in Portsmouth; the lowest recorded night temperature was 43°·0 in Newcastle-upon-Tyne, and the

highest day temperature in the shade 77°.8 in Portsmouth. No rain was measured last week in Liverpool, Manchester, Norwich, or Bradford; in the other towns the amount ranged from the hundredth of an inch in Wolverhampton, to rather more than a quarter of an inch in Portsmouth.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 17°·0, or 3°·0 above the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 25°·9, the lowest night temperature 11°·4, and the highest temperature in the sun was 55°·9. The wind blew at the rate of 19 kilometres an hour.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 194,917 cubic metres, and at Barking 255,389 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the THIRTY-SEVENTH Week of Ten previous Years.

,	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1871
Total Births  Males Females	1795	1772	1923	1868	2089	2115	2058	2021	1944	1986	1957·1	2211
	916	913	938	957	1054	1080	1044	1052	957	1002	991·3	1111
	879	859	985	911	1035	1035	1014	969	987	984	965·8	1100
TOTAL Deaths Males Females .	1110	1138	1257	1236	1204	1371	1262	1246	1409	1197	1243·0	1422
	565	598	659	610	625	734	651	642	706	618	640·8	672
	545	540	598	626	579	637	611	604	703	579	602·2	750

Note.—The deaths of last week may be compared with the average of deaths in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	June 24.	July 1.	July 8.	July 15.	July 22.	July 29.	Aug.	Aug.	Aug.	Aug. 26.	Sept.	Sept.	Sept. 16.
TOTAL Deaths	1296	1328	1200	1259	1281	1420	1382	1568	1715	1682	1485	1422	1422
Deaths under 5 years of age - Deaths 5—20	495 131	541 135	466 122	507 127	578 97	739 104	706 106	825 125	960 107	967 100	824 86	767 94	717 112
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	248 196 189 37	238 215 165 34	199 190 185 38	202 182 197 44	200 212 164 30	203 159 177 38	177 188 165 40	192 193 193 40	187 204 217 40	194 197 180 44	178 184 178 35	189 161 160 51	178 223 157 35
Deaths from Smallpox	232 27 24 3 33	235 15 16 8 36 4	164 12 24 4 30	133 22 40 9 23	135 17 24 1 28 5	122 18 19 8 22	87 18 24 5 25	96 28 30 5 41	80 19 21 4 30	82 20 24 6 25	78 19 24 9 32	81 21 26 3 26 8	57 16 32 8 32
,, Enteric (or Ty- phoid) fever - Simple Contd fever ,, Diarrhœa -	9 7 20	11 7 46	4 5 39	10 6 64	9 10 110	9 7 201	10 4 225	13 7 299	19 5 425	11 7 487	15 4 353	15 11 293	25 11 268
" Simple Cholera - " Phthisis - " Bronchitis - " Pneumonia - " Heart Disease -	131 82 48 55	147 82 38 52	3 165 59 44 68	148 68 37 48	9 144 59 40 56	17 149 48 52 49	18 152 68 40 65	15 147 51 34 62	138 53 34 67	28 145 53 30 60	20 164 59 37 61	24 153 47 38 49	15 146 58 39 62
Mean Temperature of the Air	56.2	56.6	60.2	61.7	65.5	60.4	60.3	68.3	67.1	63.0	64.0	60.5	62.6
Mean Temperature of the Water of the Thames -	56.1	60.4	61.4	63.2	65.6	65.6	63.9	66.4	69.6	70.5	64.5	64.6	63.4
Humidity of the Air	84	73	76	78	75	75	70	68	69	76	71	78	71
Rain-fall in inches	1.50	0.05	0.87	1.51	0.05	0.66	0.23	0.00	0.69	0.09	0.02	0.66	0.00

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 16th day of September 1871, in the following large Towns.

CITIES	Area	Population	Persons	Births registered	DEATHS registered		ATURE OF		TEMPERA- TURE OF THE AIR.	RAIN	FALL.
BOROUGHS. (Municipal Boundaries for all except LONDON.)	in Acres.	estimated to the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 16th Sept. 1871.	during the Week ending 16th Sept. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Cent metro
Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	5255	3875	78.6	42:0	57.7	14.28	0.06	0.1
LONDON	77,997	3,263,872	41.8	2211	1422	78.6	52.2	62.6	17.00	0.00	0.0
PORTSMOUTH	9,513	113,450	11.9	- 77	48	77.8	52.4	61.6	16.44	0.33	0.8
Norwich - 4 -	7,472	80,533	10.8	146	60	70.5	48.0	59.2	15.11	0.00	0.0
BRISTOL	4,688	183,298	39.1	150	84	-				-	
WOLVERHAMPTON -	3,387	68,476	20.2	46	46	71.6	49.7	58.3	14.61	0.01	0.0
BIRMINGHAM	7,831	344,980	44.1	328	208	73.5	49.0	57.7	14.28	0.16	0.4
LEICESTER	3,200	95,882	30.0	87	74		-	-			-
NOTTINGHAM	1,996	86,929	43.6	56	56	73.5	48.2	59.3	15.16	0.06	0.1
LIVERPOOL	5,108	494,649	96.8	430	319	72.3	49.5	57.4	14.11	0.00	0.0
MANCHESTER	4,486	356,099	79.4	278	279	72.7	49.2	60.2	15.66	0.00	0.0
SALFORD	5,172	125,422	34.3	97	98	72.8	47.1	57.4	14.11	0.00	0.0
BRADFORD -	6,590	146,987	22.3	98	87	70.0	48.4	57.3	14.05	0.00	0.0
LEEDS	21,572	260,657	12.1	229	213	71.0	47.0	57.7	14.28	0.13	0.:
SHEFFIELD	22,830	241,507	10.6	185	167	70.0	45*0	57.0	13.89	0.21	0.1
HULL	3,562	122,266	34.3	83	73	68.0	46.0	56.2	13.44	0.05	0.0
SUNDERLAND	3,306	98,797	29.9	.94	96			- Banker			
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	109	101	64.0	43.0	53.0	11.67	0.13	0::
EDINBURGH	4.427	201,728	45.6	124	74	66.7	42.0	54.5	12.20	0.00	0.0
GLASGOW	5.063	479,227	94.7	330	226	67.0	42.4	56.3	13.20	0.00	0.0
DUBLIN	9,745	310,565	31.9	197	144	70.5	45.2	55.7	13.16	0.04	0.

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by add 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs shown a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that c the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Weending Saturday the 16th day of September 1871.

		iding Sati	-			1								
	ANNUAL RATE		3 ;		The	DEAT	us regi	stered i	n the V	Week in	clude		1.7	
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	
Total of 17 Towns -	29	3431	1397	396	120	32	64	16	58	129	916	78	143	60
London	23	1422	474	192	57	16	32	8	32	47	268 .	38	77	2
PORTSMOUTH	22	48	18	6	-		_	1	3	_	11	1	2	
Norwich :	39	60	38	9		-	_	- ·	-	-	26	1	1	1
Bristol	24	84	32	15	2	3	4	1	-	6	12	1	3	3
WOLVERHAMPTON -	35	46	16	7	1	-	-	_	1	2	8	1 2	==	7
BIRMINGHAM	31	208	100	20	2	2	2	2	3	6	91	4	13	
LEICESTER	40	74	42	5	-	1	-	-		2	26		- 1-	
NOTTINGHAM	34	56	24	5	2	- "	7 1	-	-	5	18	- 17	1	
LIVERPOOL	. 34	319	148	36	. 4	5.	11	2	6	7	95	12	13	
MANCHESTER	41	279	124	22	7		2	e '	5	9	102 -	7	13	
SALFORD	41	98	47	11	2	600	. 2	-1		1	36	1	2	1
Bradford	31	87	44	. 7	-	-	-	. 1	.4	4	30	1	3	
LEEDS	43	213	97	22	3	- min	-	-	1	12	78	8	4	
SHEFFIELD	36	167	80	15	<u> </u>	1	5	-	1	7	60	2	4	
HULL	31	73	30	7		1	1		- '	6	21	1	1	1
SUNDERLAND	51	96	36	11	20	, -,	. 4	1	.1	13	13	1	1	
NEWCASTLE-ON-TYNE -	41	101	47	6	20	3		I	. 1	2	21	5	5	
DUBLIN	24	144	43	32	4	-	-	-	. 3	8	31	5	3	

### Deaths from different Causes.

TABLE 5.- DEATHS in LONDON Registered in the THIRTY-SEVENTH Week of the Year 1871.

TABLE 5.—DI	EATHS I	III JLC	NDO	JN J	neg	iste.	rea	111	ше	THIRTY-SEVE	NTH VV	eek or	tne .	t ear	10	71.		
	he Veek 11-70.	Sat	In t urda;	he W	eek ptem	endi iber	ng 16, 18	371.				veek S1-70.	Satu	In t	he W	reek etem	endi: ber 1	ng 6, 18
	s of the		Deat	hs of the	Per Age	sons s	of					s of the		Deat		Per	sons	of
CAUSES OF DEATH.	Averages of the Thirty-seventh Week in the 10 years 1861-70.	ALL AGES.		der	r 40.	r 60.	r 80.	and		CAUSES OF DI	EATH.	Averages of the Thirty-seventh Week in the 10 years 1861-70.	ALL AGES.		der	r 40.	r 60.	r 80.
5.	Third in the	Mean	-	1.	under	1 under	60 and under	0 Years a				Third in the	Mean	_		under	unde	and under
Mean Temperature	58.2	Tem. 62.6	0-5.	5-20.	20 and	40 and	60 and	80 Yeu		Mean Temper	ature -	58.5	62.6	0-5.	5-20.	20 and	40 and under	60 and
ALL CAUSES	1243.0	1422		112	178	223	157	35	9.	Stricture of Inter	stines -	1:1	3		_	-	2	1
SPECIFIED CAUSES	1230.4	1418	715	112	178	221	157	35	11. 12.	Fistula Stomach Disease, Pancreas Disease	e. &c	6.0	7	1 -	ī	1	2	ī
I. ZYMOTIC DISEASES. ORDER 1.						,			14. 15.	Hepatitis Jaundice Liver Disease, &		3.8 3.7 14.8	5 7 21	3 -	1 1	- 8	3 2 13	1 1 5 2
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	11.6 19.6 84.4	57 16 32	25 16 22	13	16	3	1111		1	Spleen Disease, & ORDER 5.	·c	*2	2		_			2
4. Diphtheria	11.1 1.0 12.4	8 1 5	3 - 5	5 1 -		-	1111	11111	2. 3.	Nephritis Ischuria Bright's Disease	(Nephria)	9·2	1 8	1 ( ) 1	- 2	3	1 2 1	- 1
7. Whooping-cough	27·6 54·2	32 11 25 11	81 - -4	3 9 2	6 7	2 3 2	1 3	1	5.	Diabetes Calculus (Stone) Cystitis Kidney Disease,	= =	6 1.2	2 2	1111	-	-		2 3
- Simple continued Fever -) 9. Erysipelas 10. Puerperal Fever (Metria) 11. Carbunele	5'9 3'4	7 3 1	3 4 -	1	1 2	2 - 1	- -		!	ORDER 6.	yc	7.4	10				- 6	
11. Carouncie – – – – 12. Influenza – – – – 13. Dysentery – – – 14. Diarrhea – – –	1.0 .1 2.7 108.4	1 268	- 1 250			3	10	- 3	2.	Ovarian Dropsy Uterus Disease, 6	rc	3.6	ī	Ē	=	-	-	-
15. Simple Cholera 16. Ague + 17. Remittent Fever	24'8 '4 '3	15	8	1 2 -	1	2	2 -	0 1 1 1	1. 2.	Synovitis (Arthr Joint Disease, &c	itis) -	8.7	8		4	2	2	
18. Rheumatism — — — — — — — — — — — — — — — — — — —	8°7	8	1	1	4 -	2	-	-		ORDER 8. Phlegmon - Ulcer -		1.2	4		-	2	2	-
ORDER 2.  1. Syphilis	6.5	6 2	6 ~	-	-	- 2	-	-	3.	Skin Disease, &c.		1.4	=		-	_		1 1
3. Hydrophobia 4. Glanders ORDER 3.		=	Ē	_	_			-	1	DISEASES ORDER 1.	·							
1. Privation	8.8 1.1	17 4	17 1	- 1	1	- - 1	-	-	2.	Premature Birth Cyanosis Spina Bifida -		17.0	26 2 2	26 1 1 1 12	- 1	-	7 17	111
3. Purpura and Scurvy 4. Alco-\ a Del. Tremens - holism b Intemperance -	8.8 1.1 2.0 1.4	5 1	Ē	-	3	1 -	1 -	-	4.	Other Malformat Teething -	ions -	1:3 11:9	12	12	-	_	-	-
ORDER 4. 1. Thrush	4.1	5	5 -	-	ĩ	-	-		1.	ORDER 2. Paramenia - Childbirth (see	Puer-}	*3	7	-	-		-	-
II. CONSTITUTIONAL DIS. ORDER 1.										peral Fever) - ORDER 3.	}	6.2			_	6	1	_
1. Gout	1°3 12°8 28°6	5 30	1 1	1,1.1	2	1 1 14	3 12	- 1	1.	Old Age ORDER 4.	- <del>1</del> 2 -	40.0	27					13
4. Cancrum Oris (Noma) - 5. Mortification Order 2.	3.3	3	=	-		ī	ī	1		Atrophy and Del		70.2	83	75	_2	-1	4	2
1. Scrofula	7°7 28°4 145°1	S 42 146	4 38 13	3 3 15	1 62	- 49	7			ORDER 1.								
4. Hydrocephalus III. LOCAL DISEASES.	21.4	27	22	5	_		-	-	1. 2.	Fractures and Co Wounds Burns and Scalds		15.8 .6 3.5	18	2	4	7	4	1
ORDER 1.	11.8	9	4	3	_	1	1	_	4. 5.			8·1 5·3	6 3	3	3	1	1	1
2. Apoplexy	27°5 21°7 2°4	35 23 1	6 -	-	1	15 7 -	10 14 1	3 1 -	7.	Otherwise - ORDER 3.	I I	2.8	-2	1	_	ī	-	-
5. Chorea 6. Epilepsy	6°4 40°8	7 35	35	2 - 2	1 - 5	2 - 2	2 - 2		1.	(Homicide. Murder and Man		2.4	1	_	_	1	_	_
8. Brain Disease, &c ORDER 2. 1. Pericarditis	2*0	3	-	1	-	1	1	-		ORDER 4. (SUICIDE.)								-
2. Aneurism	1°8 49°3	8 8 62	1		16	22	15 —	2	1.	Wounds { Gunsh Cut, S Poison -	ot -	*4 *6 1*6	1 2	-	-	1	1	1 1 1
1. Laryngitis 2 Bronchitis 3. Pleurisy	4.8 58.3 1.9	2 58 6	1 23	=	1 2	$\begin{array}{c} 1 \\ 10 \\ 2 \end{array}$	21	1.8.1	3 4.	Drowning - Hanging - Otherwise -	1 = 1	*6 1.6	2 1	-	-	1	1	1111
4. Pneumonia 5. Asthma 6. Lung Disease, &c	41.5 3.7 9.2	39 3	23 - 6	2	1	8 -	21 2 2 3	1 1 1	0.	ORDER 5.	,							_
ORDER 4.	1.2		-					-	1.	(EXECUTION Hanging	"	*1	-	-	_	-	-	
2. Enteritis	5°7 5°4 2°4	5 8 2 3	1 2 -	1	1	3	1 2 -		1	iolent Deaths (not		*5	-		-	-	- 9	
7. Ileus	2·6 3·4 2·5	3 5	- 1	-	1	-	2 -	1	Ca	adden Deaths (Ca ascertained) — auses not specifie	d or ill-{	2.5	4	2	-	-	2	1 1
8. Intussusception	.7		-		-	-	-			defined	5							

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

	 1										_		-8	ще			
		during	during				The	DEAT	HS re	gistere	d in	the W	eek i	nclude	3		
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total BIRTHS duthe Week.	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Searlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enterie (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
LONDON	3,251,804	2211	1422	474	192	57	16	32	8	32	11	25	11	268	38	77	221
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS SOUTH DISTRICTS	561,189 751,668 383,887 638,928 966,132	280 510 241 478 702	201 315 158 307 441	72 103 41 100 158	25 51 16 44 56	3 19 1 15 19	2 4 6	3 7 2 2 18	2 3 - 3	7 6 4 6	2 2 3 3	4 11 2 2 6	1 - 4 6	43 55 19 63 88	7 8 2 10 11	10 20 7 26 14	23 67 35 45 51
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington WH - Kensington Town WL - Brompton H - St. Peter Hammersmith H - Fuham WLLLL - Chelsea North - west HWw - Chelsea North -	 58702 380652 91583 91583 286631 6662 36090 233778 233778 21389 18700 13020 13020 27640 10453 12855 10279 17555	28 14 49 8 4 28 17 13 19 9 4 6 36 20 4	12 7 28 12 3 17 17 9 12 12 12 2 20 13 12 5 6	611231655372-4522-235	213 -123 -22 - 312 12	1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 2	1		11111121		111111111111111111111111111111111111111	111111111111111111111111111111111111111	41145 214 2 -44 22 11	13)2	1111222	11111151411714111
NORTH DISTRICTS.  All Souls Marylebone HH — Cavendish Square — Rectory Marylebone WH — St. Mary Marylebone H — Christehurch Marylebone — St. John Marylebone — Hampstead WHH — Regent's Park Paneras — Tottenham—court wH — Gray's Inn Lane H — Somers Town — Camden Town W — Kentish Town W — Islington West* WHHH — Islington East Www — Stoke Newington L — Stamford Hill — West Hackney WwHL — Hackney WwHL — South Hackney L —	 28574 15419 26387 21795 33892 33110 29216 38562 18065 68198 9810 4599 28076 50087	17 8 24 8 23 20 14 25 15 22 22 12 45 85 94 3 18 26 26	15 6 13 10 17 9 13 12 16 8 9 12 27 39 53 2 1 18 14	2 5 3 6 4 2 5 4 2 5 12 19 1 13 1 9	4 - 6 2 2 1 3 2 2 2 6 3 2 9 1 - 1 1 1 1	61-1-443-		111111111111111111111111111111111111111	111111111111111111111111111111111111111	1 1 12 12	1	1 1 2		2 1 1 2 1 2 1 3 2 10 6 9	1 - 1 - 2 1 - 2	11 1221 1 2 1 1 52 16 1 1 1 1	8 5 7 2 7 5 12 7 - 8 -
City-road WHHL Whitecross-street	17843 19089 16497 11328 9831 9376 10711 20521 18522 9051 18912 16878 16229 121.66 18291 13790 10752 14484 13639 7562 211184 4389 6308 4744 5694 7838	10 22 12 12 4 4 7 8 7 9 11 7 9 6 9 9 4 6 11 12 12 12 12 12 14 17 17 19 19 19 19 19 19 19 19 19 19 19 19 19	5 12 4 5 2 9 7 8 10 4 4 11 3 5 5 3 4 10 4 4 4 6 6 7 22 5 5 1 1 1 3 3 3	1 1 2 2 3 3 2 2 1 3 1 4 1 1 2 2 2 2 2 3 - 1 1 1	1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1	1	2			1	1 2 2		gi ili ililili ili ibilili	1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	111111111111111111111111111111111111111	4 2 20

<sup>\*</sup> The Small-pox and Fover Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

315

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

		during	ing				The 1	DEATE	is reg	istere	d in	the W	eek ii	aclude			
REGISTRARS' SUB-DISTRICTS.	Enumerated Population. 1871.	Total BIRTHS dur the Week.	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch — — — — — — — — — — — — — — — — — — —	12429 16545 27832 26944 24153 19257	10 15 26 22 12 29	5 7 8 12 18 8	1 2 2 8 3 5	1 1 3 -	1 2 2	1	11111	111111	1		1	1	1 1 1 3	11121	1 1 9 1	1 - 4 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21875	17 32 21 6	10 24 9 8	1 8 4 2	2 7 1	1 1 1 -				1	1 -		1 -	2 4 2 2	1 1 1		6 -
Artillery Whitechapel	6651 15844 15550 11434 7323 10381 9149	4 3 16 6 5 12 3	2 8 6 5 15 3	1 3 - 2 2 1	1 1 1	,	ī - 1 -		111111		1	111111	1	- 1 2 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 - 1	11 11 1
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	13 22 3	17 9 4	8 2 1	2 - 2	1 1	111	-	-		-	-	= 1	7 2 -	- 1	- 1	- - 4
Shadwell W	11623 15930 30025	8 4 18	6 11 14	2 3 6	3	<u>.</u>	=	=	=	1 -	1 -	-	,-	1 5 5	1	1 2	3 -
Mile End Old Town West Mile End Old Town East WwH	38126 55020 67777	34 56 42	16 24 32	8 9	1 4 7	2 5	1 ~	- - 1	-	1 - 1	-	-	ī -	2 7 3	1 -	1	- 2 13
Poplar WH SOUTH DISTRICTS.	48500	39	23	11	8	1		1		=	~	-	-	8	1	3	ĭ
Christeburch Southwark W - St. Saviour Southwark H - Kent-road Borough-road WH London-road L - Trinity Newington - St. Peter Walworth W St. Mary Newington H	14547 15667 20430 16694 18959 23673 48282 16786	8 5 13 18 16 10 37 16	5 9 8 4 5 8 24 14	1 3 3 3 3 11 8	1 1 - 3 1 1	2	1 2 1	1 2	1	1 - 1	1	- 1		1 2 2 5 -	1	1	2 - 1
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	8 9 12 40 20	19 4 14 13 18 5	1 5 3 7 2	1 2 5 2 -	2 1	- 1 1	2		- 1	111111	117771	111,1171	2 4 3 4 2	5 - 2 1	5 - 2 1	16 - 5
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W	14086 18453 19470 35831 41284 31213 85431 12534	9 16 15 83 36 22 26 8	6 8 9 28 15 13 27 5	3 1 2 7 5 5 7 2	- 1 8 2 1 3 1	1 3 8 -	1 -	1 2 3		1 2 2	1111111	2 -	111	1 1 2 2 1 -	1	1	1 8 - 7 -
Clapham HL Batterses W	27348 53988 19797 9438 14479	17 39 18 4 12	9 20 10 3 2	5 6 4 1 2	2 1 -		ī - -	1 -	11111	-	11111	1 -	11111	4 2 1 -	- - -	1	32 -
Dulwich Camberwell WL†L†	4041 31251 42159 83851	30 30 18	15 16 12	- 5 8 3	3 1 1	- - -	1111	13.11		- - ī	1111	1 1 -	- - 1	3 6 5	1111	1111	4 -
St. Paul Deptford	53696 6487 21098 19820	48 4 14 14	28 - 6 10	16 1 3	2 3 3	1111	1111	2	=		1111	1113	1111	10	1111	1 -	1111
Eltham Lee Lewisham Village W Sydenham	4528 16430 11508 19016	3 10 8 15	1 8 10 11	- 2 4 5	1 1	1111	:	1 2	- - 1	11.11	1111		1111	- 1 4 1	1111	1111	2 -
Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead, West Plumstead, East W	9503 17229 18319 13028 15290	12 16 9 12	3 5 7 8 6	3 - 2 3	- 1 1	11111	1 1 1 1	1111			11111	1111	- 1	- 1 2	11111	11111	

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.
The Strand
London City
Do. do. - " " Islington East.
Hackney sub-district.

TABLE 7. - METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 16th September, 1871.

6	· _						M	eteore	ologic	al C	)bse	rvati	ons.							1
√ •••					виоzО	; ;	; : :::	:	+	26		hose at	dry lean five	and and ults	well by	rva- r 31.	d as	ring pout	Col.	mall the
	RAIN.	Collected	Gauge	receiving	is 5 in. above the ground.	Inches 0.00 0.00	00000	00.0	Sum 0.00	55		t with tree taker	ster, the d into n S., from	e mean dally the dry and The results include the	P.M., as sermined The aver	cal obse	derstoo	f-registe pth of al r the su	f Lieut.	, with s
				Amount of Horizontal	Movement of Air each day.	Miles. 262 195	270 326 362 276	293	Sum 1984	24		feet aborcoinciden	he barome converte sher, F.R.	values of edition,	; and 9h. ers, as det to each.	ermometri ling 1863, I <i>iaher.</i> " an	re to be ur	use of sel , at the de tered unde	mission of	in the 14th ised to 30°
		eters.		refoot	Mean of 24 Obs.	lbs. 0.4 0.1	0000	0.3	:	23		be 159 to be obser	gs of t les, are es Glai	part 1, daily ourth	h. P.M. momet polied	the thurs end	ions a	by the	y peri	A.M. o
		Anemometers		Pressure on square foot	Least.	lbs. 0.0 0.0	0.000	0.0	:	22		ed to sidere	readin se tin y Jam	rans., ] mean les, F	oon; 3 n ther eing a	from 50 yes + is re	servat	ained Polic	hip, b	by 9h.
	WIND	d from	, s.	Pressur	Great-	lbs. 3·2 1·5	85.50	5.6	:	21		onsiderare con meter.	of the at thoused b	those those cal Tak	A.M.; n inimur tions b	Haisher in the	sical ok	ascert noion trume	the sun Poli	12in. 12in. 16 15th
		As deduced from	Osler's.	General Direction.	Р. М.	ESE. &E.	NE. ENE. NE. NE. E., ENE.	NNE. &	NE.	20	NOTES.	barometer is candard baro	The means r, observed setions ded	er 31.—See educed from Hygrometri	ead at 9h.	ed by Mr. Greenwich, borne in mi	meteorolog	Thames is of the "Secon these ins	on board Metropolita	eased to 30 r. P.M. on th
				General I	A. M.	ESE. & SE. ENE. &	NNE. NE. NE. NE.	NE.	Z	19		The height of the eistern of the barometer is considered to be 150 feet above the mean veel of the sea. The readings of the barometer are considered to be coincident with those the Royal Society's filing glass standard barometer. The observations are taken at	9b. A.M.; noon; Sh. P.W.; and 9b. P.M. The means of the readings of the burometer, the dry thermometer, and the vet thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Glaisher, F.R.S., from five	Sugary Observations ending 1845, December 31.—See Fins. Trans., part 1, 1848. The meah dally dow point and degree of humidity are deduced from those mean daily statues of the dry and dey and the bulb thermometer by Glaisher's Hyghentical Tables, Fourth eldinon. The results for mean daily the mean daily the first of the sire of the minimal and the defining the first factors and daily the mean daily the first of the sire of the minimal and the defining the first factors are desired to the first factors and the first factors are defined to the first factors and the first factors are defined to the first factors and the first factors are defined to the first factors and the first factors are desired to the first factors and the first factors are desired to the first factors and the first factors are desired to the first factors and the first factors are desired to the first factors are desired to the first factors are desired to the first factors and the first factors are desired to the first factors are desired to the first factors are desired to the first factors are desired to the fact	observations of the day thermometer, read at 9h. A.M.; noon; 8h. P.M.; and 9h. P.M., as well as the results deduced from the maximum and minimum thermometers, as determined by the self-reasistening thermometers, the proper corrections being applied to each. The average the self-reasistening thermometers, the proper corrections being applied to each.	temperature of the air is that defermined by Mr. Glaisher from the thermometrical observa- tions taken at the Royal Observatory, Greenwich, in the 60 years ending 1863, December 31, * In reading the 17th column it will be berne in mind that + is read. "kinger," and — "concer,"	ts of all the from midnig	The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpion". Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the supper-	nissioner of	The regular, of the baroneer degreesed from 27 year, as the beginning of the week to 29.70 in by 10h. P.M. on the 10th; increased to 30.12 in by 9h. A.M. on the 14th, with small fluctuation; decreased to 30.03 in. by 3h. P.M. on the 15th; and increased to 30.09 in. by the end of the week.
	Degree	midity,			sented by 100.	8 2 2 2	70 66 72 72	11	71	18		cistern ne readi ty's flin	he wet tapplicat	nding 18 e of hur ters by	dry then	Royal Ok	he resul	of the vanded frage. Til	resident B., Coun	on the
[Under the Superintendence of the Astronomer Royal.]	CE	Between	perature of the day and	mean tem-		9.9 ++	++++ 	+ 3.5	+ 5.3	17		The height of the level of the Royal Socie	noon; 3h. F ster, and the les by the	ervations er tand degree thermome	ons of the sults deduc	ure of the a en at the I	average. T	mperature eters, suspe ow the surf	pe of the	The reading of the 29'70 in. by 10h. P.M. fluctuation; decreased of the week.
nono	DIFFERENCE	Point	ture		Least.	1:1	0.10	8.0	1.8	16		he hei	A.M.; rmome ly valu	rs'obs v point bulb	ervatic	perati	n the	The ten	enden	70 in.
he Astr	DIF	Between Dew Point	and and Air Temperature		Great- est.	22.4	21.3 17.8 15.2 16.0	15.8	17.6	15		leve	ch ch ch			tion *		the 2 fe	int	the fine
ce of t		Betwe	Air	N. M.	daily value.	13.3	10.0 10.6 11.6 9.1	7.4	1.6	14			ıds wer	M.; the	of cloud		fternoo			
ntenden			the Thames at	istering	Lowest	62.0	62.4 63.0 60.8 61.2	61.2	2.19	13	83		atus elon	Variable till 4h. P.M.; then	fine day, with small amounts of cloud.		Variable in the afternoon.	ght.		
Superi		1			flighest.	65.6	65.6 65.8 65.0 64.4	64.1	65.1	12	PHERI		cirro-str	<sup>7</sup> ariable t	h small		Variable	nt till nig		
nder the	TERS.	Lowest	0.00	a self- register-	ing Minimum Thermo- meter.	43.0	47.0 47.0 51.1 45.0	47.1	47.6	111	ATMOSPHERE		rus and		day, wit	Fine.	at night.	s prevale	٨.	
	THERMOMETERS.	Highest in	shown by	Thermo	blackened bulb in vacuo, placed on the Grass.	132.6	130.4 100.5 96.6 128.7	118.2	119.8	10	SKY AND		A very fine day. Light cirrus and cirro-stratus clouds were present generally. Hazy at night,	Overcast during the early morning, generally cloudless. Fine.	M. A	Generally cloudy throughout. Fine.	ast till noon and again at night.	fine day. Light clouds prevalent till night.	. A fine day.	
	DINGS OF	Dew	Point.		daily value.	51.0	54.8 50.7 48.0 52.7	53.0	52.9	6	20		ine day lerally.	during	Overcasť at 5h. A Cloudless at night.	r cloudy	till noo	ne day.	ally elcudy.	
	READI				daily value.	64.3	64.8 61.3 59.6 61.8	60.4	62.6	00			very f	vercast erally cl	rercast udless a	enerally	Overcast	A very fit	Generally	
			Dry.	2	day.	21.3	21.8 13.4 8.6 17.1	18.8	17.4	-			pres	-		G	°	. 4	· ·	
		,	-		est.	52.5	56.5 56.0 56.2 54.0	53.0	55.1	9				ension,						
	-				nign-	78.8	78.3 69.4 64.8 71.1	71.8	72.5	עט	CITY		wn.	weak t		, and		night.	*-	
	BARO-	Mean	reading (eot-	and re-	duced to 32 degr. Fahren-	in. 29·717 29·796	29.975 30.069 30.095 30.043	30.070	29.966	4	ELECTRICITY		No electricity shown,	, with	Casionani	No electricity shown		Weak positive at night.	ricity.	
	MOON.		Phases	Jo	Moon.	::		In Equator	:	05	A		No electi	Positive, with weak tension,	on manner	NoolooN		Weak po	No electricity.	
					DAY.	ER. 10	7	16	1:	Siluin	-		10	n	12	13	14	15	16	
			1871.		MONTH AND DAY.	SUNDAY	TUESDAY . WEDNESDAY . THURSDAY.	SATURDAY.	MEANS	No. of Columns	DATE.	SEPTEMBER	SUNDAY .	Monday .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAY .	SATURDAY.	4.1
		-				10714				-	1				-		-			

### WEEKLY RETURN

#### BIRTHS AND DEATHS IN LONDO AND IN NINETEEN OTHER LARGE TOWNS THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 38. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, SEPTEMBER 23. [Price 1d.

General Register Office, Somerset House, 25th September 1871.

During the week ending Saturday the 23d instant, 4994 births and 3735 deaths were registered in LONDON and NINETEEN other LARGE CITIES and TOWNS of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 27 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, ranged in topographical order, were as follow: -London 23 per 1000; Portsmouth 27, Norwich 29, Bristol 20, Wolverhampton 31, Birmingham 30, Leicester 41, Nottingham 31, Liverpool 36, Manchester 33, Salford 32, Bradford 36, Leeds 36, Sheffield 34, Hull 25, Sunderland 49, and Newcastle-upon-Tyne 28. The fatal cases of diarrhoa, principally infantile, in these towns, which had been 880 and 916 in the two previous weeks, declined last week to 685; equal to an annual death-rate of 6 per 1000 persons living; the highest death-rate from this disease was shown in Birmingham and Leicester, in which towns it was 11 and 16 per 1000 respectively. The deaths from small-pox in these seventeen towns, which in the two previous weeks had been 151 and 120, rose again to 154 last week; of these, 89 occurred in London, 21 in Sunderland, 12 in Newcastle-upon-Tyne, 9 in Manchester and Salford, 6 in Sheffield, 5 in Liverpool, 3 in Wolverhampton, and 2 each in Norwich and Hull.

In Edinburgh the annual rate of mortality from all causes last week was 26 per

1000 persons living, in Glasgow 26 per 1000, and in Dublin 23.

In Paris 832 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 24 per 1000 of the estimated population. In Brussels 120 deaths occurred in the week ending 16th instant, and the annual deathrate was 34 per 1000. In Vienna the 251 deaths in the week ending 16th instant gave an annual rate of 21 per 1000. In Rome 125 deaths were registered in the

week ending 10th instant, and the annual death-rate was 29 per 1000.

Kenigsberg had in the year 1867 a population of 106,296; and in the three years 1865-6-7, the latest to which the official returns apply, the mortality was at the rates of 28, 51, 32 per 1000; so it is not improbable that the city suffered severely from the epidemic cholera of 1866. In the six weeks that ended on August 31st, the mortality from cholera alone was at the annual rate of 69 per 1000: but while the deaths by cholera in the six weeks were 837 in the city, the deaths in the rest of the department with nine times the population of the city were 121; so the mortality there was only 1.1, or about 1-60th part of the mortality by cholera in the city. It is certain then that the intense mortality in the city is due to some local cause.

In the City of New York 555 deaths were registered in the week ending 2d instant, and the equivalent annual rate of mortality was 31 per 1000.

In Bombay the deaths registered during the week ending 29th ultimo were 312, and the mortality was at the annual rate of 20 per 1000. In Madras the 237 deaths in the week ending 4th ultimo showed an annual death-rate equal to 29 per 1000 of the population.

In London 2101 BIRTHS and 1411 DEATHS were registered last week. making due allowance for increase of population, the births were 120 below, while the deaths exceeded by 74, the average numbers in the corresponding week of

the last ten years.

The 1411 deaths in London last week included 89 from small-pox, 23 from measles, 27 from scarlet fever, 7 from diphtheria, 24 from whooping-cough, 21 from different forms of fever (of which 3 were certified as typhus, 12 as enteric or

[38.]

typhoid, and 6 as simple continued fever), and 205 from diarrhea; thus to the seven principal diseases of the zymotic class 396 deaths were referred last week, against numbers declining steadily in the four preceding weeks from 666 to 460. The fatal cases of small-pox were more numerous than in any of the five previous weeks, while those of diarrhea and enteric fever showed a decline.

The mean temperature, which in the six weeks ending 16th instant was 64°·3 and averaged a daily excess of 4°·5, fell during last week to 53°·6 which was 2°·4 below the average. In the past five weeks the mean temperature of the water of the Thames has steadily declined from 70°·5 to 60°·1 last week. The deaths from diarrhea in London, which in the four previous weeks had been 487, 353, 293, and 268, further declined last week to 205, of which 186 were of infants under two years of age. Only two deaths were referred to cholera and choleraic diarrhea last week, while in the eight previous weeks they had averaged 22; both those last week were certified as choleraic diarrhea, one of child aged two years, and the other of a female aged 48 years.

Dr. Frankland, F.R.S., reports that on 18th instant he found the water delivered by each of the eight companies supplying London to be clear and transparent; on the 22d the samples drawn from the mains of the Chelsea, West Middlesex, Grand Junction, Lambeth, New River, East London, and Kent Companies were equally bright and clear; on the 23d, however, the water delivered by the Southwark and Wauxhall Company at the cab-rank opposite St. George's Church in the Berough

was slightly turbid.

The fatal cases of small-pox in London, which in the two previous weeks had been 81 and 57, rose again last week to 89, which were 73 above the corrected average number in the corresponding week of the ten years 1861-70. The fatality from the disease showed an increase last week in Pancras District, Bethnal Green,

Walworth, Battersea, and Camberwell.

To different forms of violence 62 deaths were referred last week; of these, 53 were the result of accident or negligence, including 24 from fractures and contusions, 6 from burns and scalds, 9 from drowning, and 11 from suffocation, of which 9 were of infants. Of the deaths from fractures and contusions no less than 9 were caused by horses or vehicles in the streets; one resulted through falling from a tramway car, and 7 were caused by vans, wagons, drays, or cabs. Two cases of manslaughter, and 4 of suicide, were registered during the week.

Six deaths of persons aged 90 years and upwards were recorded last week; a seaman in the Shoreditch Workhouse was stated to have attained the age of 106

years, and his death was certified from diarrhea.

In the large Public Institutions of the Metropolis 275 deaths were recorded last week, or 19.5 per cent. of the total deaths; of these 131 occurred in Workhouses and 131 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.75 in.; the highest reading was 30.09 in. at the beginning, and the lowest 29.33 in. at the end, of the week. The mean temperature of the air was 53° 6, or 2° 4 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was below the average on each of the days last week; on Monday the mean was 56° 3, and the deficiency only 0°·2, while on Saturday the mean had fallen to 47°·9, which was 7°·3 below the average. The highest day temperature in the shade was 67° 6 on Thursday, the lowest night temperature 39°·0 on Saturday; the entire range of temperature in the week was, therefore, 28°·6. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 138° 9 on Monday. The difference between the mean dew-point temperature and air temperature averaged 9° 9. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 60° 1 last week. The mean degree of humidity of the air was 70, complete saturation being represented by 100; the air was dry. The general direction of the wind was N.E., and the horizontal movement of the air in the week averaged 9 miles per hour. Rain fell on Saturday, to the amount of '10 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 48° 3 in Salford, to 53° 2 in Portsmouth; the lowest recorded night temperature was 35° 2 in Portsmouth, and the highest day temperature

rature in the shade 69° 9 in Nottingham. No rain was measured last week in Portsmouth, Norwich, Birmingham, Leicester, or Nottingham; in the other towns

the amounts varied from '04 of an inch in Leeds to '73 in Liverpool.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 12°·0, or 1°·3 below the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 19°·8, the lowest night temperature 3°·9, and the highest temperature in the sun was 59°·4. The wind blew at the rate of 14 kilometres an hour, and the rain-fall measured ·25 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 194,975 cubic metres, and at Barking 215,351 cubic metres, equivalent to about as many tons by weight.

Note.-A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the THIRTY-EIGHTH Week of Ten previous Years.

Total Births  Males Females .	1861 1830 944 886	1862 1760 872 888	1863 1930 946 984	1864 1953 975 978	1962 992 970	1866 2033 1057 976	1867 2215 1121 1094	1868 2080 1011 1069	1869 2252 1144 1108	1870 2174 1092 1082	Weekly Average in 10 Years. 2018 · 9 1015 · 4 1003 · 5	2101 1049 1052
TOTAL Deaths  Males Females .	1126	1185	1186	1229	1143	1350	1138	1220	1362	1212	1215:1	1411
	564	586	623	623	595	706	596	623	696	634	624:6	707
	562	599	563	606	548	644	542	597	666	578	590:5	704

Note.—The births and deaths registered last week may be compared with the average of deaths in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	July 1.	July 8.	July 15.	July 22.	July 29.	Aug. 5.	Aug.	Aug. 19.	Aug.	Sept.	Sept.	Sept.	Sept.
Total Deaths	1328	1200	1259	1281	1420	1382	1568	1715	1682	1485	1422	1422	1411
Deaths under 5 years of age - Deaths 5—20	541 135	466 122	507 127	578 97	739 104	706 106	825 125	960 107	967 100	824 86	767 94	717 112	686 <sub>5</sub> 97
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	238 215 165 34	199 190 185 38	202 182 197 44	200 212 164 30	203 159 177 38	177 188 165 40	192 193 193 40	187 204 217 40	194 197 180 44	178 184 178 35	189 161 160 51	178 223 157 35	201 203 181 43.
Deaths from Small-pox , Measles , Scarlet Fever - , Diphtheria - , Whooping-cough , Typhus fever	235 15 16 8 36 4	164 12 24 4 30 8	133 22 40 9 23 7	135 17 24 1 28 5	122 18 19 8 22 9	87 18 24 5 25 6	96 28 30 5 41 6	80 19 21 4 30 7	82 20 24 6 25 4	78 19 24 -9 32 7	81 21 26 3 26	57 16 32 8 32 11	89- 23- 27- 7- 24- 3
", Enteric (or Ty-) phoid) fever - ", SimpleContafever ", Diarrhea - ", Simple Cholera -	11 _7 46 2	4 5 39 8	10 6 64 4	9 10 110	9 7 201 17	10 4 225 18	13 7 299 15	19 5 425 40	11 7 487 28	15 4 353 20	15 11 293 24	25 11 268 15	12 6 205 2
,, Phthisis Bronchitis Pneumonia - Heart Disease -	147 82 38 52	165 59 44 68	148 68 97 48	144 59 40 56	149 48 52 49	152 68 40 65	147 51 34 62	138 53 34 67	145 53 30 60	164 59 37 61	153 47 38 49	146 58 39 62	139 62 37 54
Mean Temperature of the Air	56.6	60.5	61.7	65.2	60.4	60.3	68.3	67.1	63.0	64.0	60.5	62.6	53.6
Mean Temperature of the Water of the Thames -	60.4	61.4	63.2	65.6	65.6	63.9	66.4	69.6	70.5	64.5	64.6	63.4	60·1
Humidity of the Air	73	76	78	75	75	70	68	69	76	71	78	71	70
Rain-fall in inches	0.02	0.87	1.51	0.02	0.66	0.23	0.00	0.69	0.09	0.02	0.66	0.00	0.10

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 23d day of September 1871, in the following large Towns.

		ou day or	Pron			8	-0, -				
CITIES  AND  BOROUGHS.  (Municipal Boundaries for all except LONDON.)	Area in Acres.	POPULATION estimated to the middle of the Year 1871.*	Persons to an Acre. (1871.)	BIRTHS registered during the Week ending 23d Sept. 1871.	DEATHS registered during the Week ending 23d Sept. 1871.		Lowest during the Week.	Weekly Mean of the Daily Mean Values.	TEMPERATURE OF THE AIR. (CENTIGRADE.)  Weekly Mean of the Daily Mean Values.	RAIN In Inches.	FALL.  In Cen metr
Total of 20 Towns)							1		1 2 2 2 2 2		
in the United Kingdom -	213,281	7,204,001	33.8	4994	3735	69.9	30.0	50.7	10.39	0.59	0.7
LONDON	77,997	3,263,872	41.8	2101	1411	67.6	39.0	53.6	12.00	0.10	0.2
PORTSMOUTH	9,513	113,450	11.9	78	59	69.2	35.2	53.2	11.78	0.00	0.0
NORWICH	7,472	80,533	10.8	60	45	63.2	38.2	51.2	10.67	0.00	0.0
BRISTOL	4,688	183,298	39.1	121	69	_		-	www.11		-
WOLVERHAMPTON -	3,387	68,476	20.2	57	41	62.3	37.5	50.0	10.00	0.47	1:1
BIRMINGHAM -	7,831	344,980	44'1	266	199	62.8	40.1	50.8	10.44	0.00	0.0
LEICESTER	3,200	95,882	30.0	101	76	66°2	36*0	51.6	10.89	0.00	0.0
NOTTINGHAM	1,996	86,929	43°6	51	52	69.9	38.7	52.0	11.11	0.00	0.0
LIVERPOOL	5,108	494,649	96*8	358	339	61.1	43.8	50.3	10.17	0.73	1.8
MANCHESTER	4,486	356,099	79.4	259	227	64.0	36.0	49.7	9.83	0.33	0.8
SALFORD	5,172	125,422	34.3	115	77	60.5	36.2	48.3	9.05	0.49	1.2
BRADFORD - \-	6,590	146,987	22.3	89	101	65.4	42.7	50.9	10.20	0.12	0.3
LEEDS	21,572	260,657	12.1	230	181	65.0	42.0	51.7	10.94	0.04	0.1
SHEFFIELD	22,830	241,507	10.6	190	158	62.0	40.0	50.6	10.33	0.23	0.2
HULL	3,562	122,266	34*3	93	59	61.0	41.0	50.4	10.22	0.35	0.8
SUNDERLAND	3,306	98,797	29*9	113	92	-		_	-	4	
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	66	70	57.0	44.0	49.2	9.55	0.53	0.2
EDINBURGH	4,427	201,728	45.6	158	102	60.0	39.0	48.9	9.39	1.40	3.2
GLASGOW	5,063	479,227	94.7	326	238	57.0	43.0	50.4	10.22	0.75	1.9
DUBLIN	9,745	310,565	31.9	162	189	68.9	30.0	49.2	9.55	0.01	0.03

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by addit 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs show a decline between the Consusses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Wee ending Saturday the 23d day of September 1871.

	ANNUAL				Th	e DEA	THS reg	istered	in the	Week i	nclude		:	Anna A
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhœa.	Violence,	Inquest Cases.	In Public
Total of 17 Towns -	27	3256	1134	450	154	44	54	16	55	96	685	119	190	43
LONDON	23	1411	418	224	89	23	27	7	24	21	205	62	106	27
PORTSMOUTH	27	59	23	11	.1	1	-	-	1	2	14	2	3	
Norwich	29	45	22	9	2	_	-	-		٠ ـــ	14	-	2	4
BRISTOL	20	69	24	14	1	2		1	1	7	8	-	1	-
WOLVERHAMPTON -	31	41	12	2	3	-	_	_	1	2	10	1	1	
BIRMINGHAM	30	199	88	25	1	~	1	1	4	6	70	9	16	1
LEICESTER	41	76	38	7	1	1		1 -	1	2	29		-	
NOTTINGHAM	31	52	16	9	~	1	1	-	1	5	14	14		
LIVERPOOL	- 86	339	129	47	-5	2	10	3	9	12	90	11	16	8
MANCHESTER	33	227	90	31	7.	2	4	-	.2	3	47	6	.11	3:
SALFORD	32	77	32	5	2	4	-	-	-2	1	31	- '-	2	1
BRADFORD	.36	101	40	11	100	-	~	-	1	8	27	.6	8	1
LEEDS	36	181	71	20	1	1	2	<u>.</u>	2	12	46	8	-8	
SHEFFIELD	34	-158	60	10	6	- 3	6	1	1	6	38	6	. 8	
HULL	25	- 59	24	8	2	1		-	2	3	17	4	4	
SUNDERLAND	49	92	20	14	21	, 44	2	-2	1	10	16	1	1	- 1
NEWCASTLE-ON-TYNE -	28	70	27	. 3	12	. 3	3	1	2	.1	. 9	3	3	. 9
DUBLIN	. 23	139	22	33	4	the of	. 2	1	2	10	14	1	, 2	4

TABLE 5 .- DEATHS in LONDON Registered in the THIRTY-EIGHTH Week of the Year 1871.

	e k 1-70.	Satu	In thirday	he W	/eek	endi ber 2	ng 3, 187	1.		reek 1-70.	Satu		the V				371
town I do not have	Averages of the Thirty-eighth Week 1 the 10 years 1861-70		Deat		f Per		of			Averages of the Thirty-eighth Week the 10 years 1861-70.		Dea	ths o	of Per		of	
CAUSES OF DEATH.	erage ty-eig. 10 yea	ALL	Une	der	40.	60.	. 80.	and	CAUSES OF DEATH.	ty-eig 10 yea	ALL		der	1 .	60,	r 80°	and
	Thirt in the	AGES. Mean	20		under	under	under			Third in the	AGES. Mean	2	0.	under 40	and under	under	Years a
Mean Temperature –	56.3	Tem.	0-5.	5-20.	20 and	40 and		80 Years upwards	Mean Temperature	56.3	Tem.	0-5-	5-20.	20 and	40 and	60 and	80 Yes
ALL CAUSES	1215.1	1411	686		201	203	181		9. Stricture of Intestines -	1.2	-	-	1 02	-	-	9 -	8
SPECIFIED CAUSES	1198.9	1408	684		201				10. Fistula	5:5	9	2	1 1 1	2	2	2	
I, ZYMOTIC DISEASES. ORDER 1.									13. Hepatitis	4.5 4.2 15.1	1 5 17	2	111	1 2 2	- 9	1 6	
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	14'3	89 23	26 22	31	29	8 -	-	Ξ	15. Liver Disease, &c 16. Spleen Disease, &c ORDER 5.	10.1		=	-	-		-	-
4. Diphtheria 5. Quinsy	88·1 10·6 1·3	27 7 1	22 7 1 10	4	1	-	1.171	-	1. Nephritis 2. Ischuria 3. Bright's Disease (Nephria)	1°3 7°9	3 - 12		2 -	- 6	1 -4	- 2	
7. Whooping-cough -	14·4 27·6	10 24 3 12	24	2 3 2	1 2		1111	-	4. Diabetes 5. Calculus (Stone)	1.2	12	111			4		
- Enteric or Typhoid Fever - Simple continued Fever - 9. Erysipelas - 10. Puerneral Fever (Metria)	51·9 { 7·1	12 6 7 8	3 1		2	2 - 4	1		6. Cystitis	8.1	6	=	=	-	4	2	
10. Puerperal Fever (Metria) 11. Carbunele 12. Influenza	2.7	8 -			8 - 7	-	1 1 1 1 1 1	-	1. Ovarian Dropsy 2. Uterus Disease, &c	8.0	1 4	-	-	1 2	2	-	
13. Dysentery	2.6 86.7 18.5	205	190 1	2	1	3 1	18 -	6	ORDER 7.  1. Synovitis (Arthritis) -	3.2	- 4	-	- 2	-	- 2	-	
16. Ague	6.0	1 8		1	2	1	-	-	2. Joint Disease, &c ORDER 8.	2.2				1			-
ORDER 2.	7.0	- 5	4		1	_	-	-	1. Phlegmon	2.2	1 1 2	2		1 -	-	-	
2. Stricture of Urethra 3. Hydrophobia 4. Glanders	1.0	. 1 1	Ê	-	-	-	1 1 1	=	IV. DEVELOPMENTAL DISEASES.								
ORDER 3. 1. Privation	2	-	-	-	-	-		-	ORDER 1.  1. Premature Birth	18·4 1·4	8	8	-	-	-	-	
3. Purpura and Scurvy 4. Alco- (a Del. Tremens holism (b Intemperance	9·7 1·2 2·2	17 4	17	1	1	-	2	-	2. Cyanosis	9 6 11·1	3 - 17	3 - 17	1111	-	111		
ORDER 4.	1.2	3	3		-	1 -	-	-	5. Teething ORDER 2.	*3	17			-			-
2. Worms, &c II. CONSTITUTIONAL DIS.	*4	-	-	-	_			-	2. Childbirth (see Puerperal ) Fever)	4.7	7	-	_	6	1	-	
ORDER 1. 1. Gout 2. Dropsy	1.5	1 7	- 1	- 2	-	1 3	3 0	-	ORDER 3.	37.6	46	_	-	-	_	22	2
3. Cancer 4. Cancrum Oris (Noma) -	13.5 24.6 1.0 4.2	39 2 3	2	1 -	7	16 1	16 - 1	- 1	ORDER 4. 1. Atrophy and Debility -	68.2	97	87	1	-	4	5	
ORDER 2.	8.2	10	7	1	1	1	1 -		V. VIOLENT DEATHS, &c. ORDER 1.								
2. Tabes Mesenterica	23°9 140°1 20°7	48 139 17	47 3 13	1 12 3	66	49	9	-	(ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	17:4	24	3	5	6	5	5	
III. LOCAL DISEASES. ORDER 1.	-	-	-						2. Wounds 3. Burns and Scalds 4. Poison	3.5 9	6	2	1	=	2	1	
1. Cephalitis	10.7 27.3 21.1	16 34	10 3	3	2 5 4	1 12 8	12	1 2	5. Drowning 6. Suffocation 7. Otherwise	5.8 5.2 2.6	9 11 3	9 2	5 1 -	1 -	2 1 1		
4. Insanity	2.3	28 4 -	-		8 - 2	8 1 - 2	13	3 -	ORDER 3. (Homicide.)								
7. Convulsions 8. Brain Disease, &c	5.7 38.4 14.3	10 46 14	1 46 4	1	3	2 4	3 - 5	- 1	1. Murder and Manslaughter	5.9	2	-	-	1	1	-	
ORDER 2. 1. Pericarditis	2.2	1 4		1	2	- 2	-	-	ORDER 4, (SUICIDE.)						,		
ORDER 3.	48.0	54	1	4	13	16	17	3	1. Wounds {Gunshot - Cut, Stab - 3. Drowning	°6	2 - 1	=	1111	1111	1 1 1	1 -	
2. Bronchitis	4.2 62.5 2.6 46.8	62 4 37	3 27 - 24	1	1 4 2 2	9 1	19	2	4. Hanging 5. Otherwise	1.2 1.4 .8	1 -		-	-	-	1 1 1	
6. Lung Disease, &c	46'8 4'0 9'2	37 4 15	10	1 -	1	5	4 4 3	1 -	ORDER 5. (Execution.)								
ORDER 4.  1. Gastritis	1.5	3 11	- 5	ī	1	1	1 4	-	1. Hanging	-	-	=	-	-	-		
3. Peritonitis	4.8 2.4 1.7	9 2 3	1 -	1	2	1 2 1	4		Violent Deaths (not classed) Sudden Deaths (Cause un-)	1:0	3	1	-	1	1	-	-
6. Hernia	1.9 2.1 6	7			2 -	1 -	2 4		ascertained) Causes not specified or ill-	1.9	3	2	-	-	-	1	

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

### 322 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

												au	ring	the	vv ee	к епс	ung
		during	during				The l	DEATI	as reg	istere	d in t	he We	ek in	elude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total BIRTHS dur	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	3,251,804	2101	1411	418	224	89	23	27	7	24	3	12	6	205	62	106	275
WEST DISTRICTS	561,189 751,668 333,887 638,928 966,132	329 460 223 431 658	206 319 142 334 410	59 95 38 115 111	29 59 20 45 71	5 37 - 14 33	6 4 1 8 4	8 4 1 2 12	4 2 1 -	7 6 4 5 2	1 2	4 2 1 3 2	3 - 1 1 1 1	81 40 18 59 57	7 11 9 21 14	9 22 11 46 18	38 88 32 52 65
WEST DISTRICTS.   St. Mary Paddington   WH	58702 \$8082 91883 28651 6662 36090 23378 24419 23278 21339 18700 13020 58043 38470 27640 10453 12855 10279 17555	36 8 71 27 4 31 18 16 9 5 11 25 19 20 1 6 4	12 10 40 6 2 12 9 11 10 3 2 1 24 28 21	7 2 12 - 5 4 - 6 6 - 3 1 3	22611212121323112	2 2	2	1		1 1 1 8 8	1	2		515-141-88-2-2	112	115	39
North Districts.  All Souls Marylebone HH	28574 16419 26387 21795 38892 33110 82271 28192 29360 29216 38562 18066 68198 97801 115948 9810 6599 28076 50097 30305	17 4 9 9 30 20 7 29 17 14 17 10 44 77 82 6 8 18 25 17	14 4 16 10 8 7 17 8 21 15 12 15 39 83 48 21 9 25 15	2114421 - 2674813 7 20 1 - 65 5 2	217312 1 182126 49 - 144	11	3	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		1 - 21 2 - 6 3 10 - 3 5 2	3 -11 1 81 1	4 - 1 3 1 6 4 - 3	6 8 - - 15 - 6 7 12 7 5 9 - - 13
CENTRAL DISTRICTS. St. George Bloomsbury St. Giles South WH	17843 19969 16197 11826 9831 9876 10711 20521 13528 9051 18912 16878 13293 16220 12156 18291 13790 10732 1484 4389 6308 4744 5694 7838	7 7 9 5 6 6 6 6 13 15 9 15 15 6 6 8 10 8 6 1 1 1 2 3	3 14 4 3 3 1 5 6 13 1 2 6 1 5 9 2 9 7 7 16 3 1 2 1 2 1 2 1 2 2 1 2 1 2 1 2 2 1 2 2 1 2 1 2	2 4 1 1 2 1 4 1 6 6 3 5 3 1 1 1 1	1 8 1 2 2 1 1 3 8 8 1 1 1				1	3 3				1 2 1 1 2 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 1 - 2 1 3 8	1 - 1 - 2 - 1 - 1 - 3 - 1 - 1 - 3 - 1 - 1 - 1 - 1	3 3 1 6 1 1 1 1 1 1 1 1 1 1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

Workhouse;

H.—Hospital;

L.—Lunatic Asylum;

which it is situated.

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 323

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

		during	during				The I	EATH	s regi	stered	in the	e Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Searlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea:	Violence.	Inquest Cases.	In Public Insti-
EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26941 24153 19257	9 16 33 15 19 12	2 7 16 3 14 5	35123	- 4 1 4	2 1	1			111111	1 1 1 1	11111	11111	1 1 9 1 9 1	111111	4.1.1/1.1.1	18 5
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	15 40 19 13	6 44 10 15	13 5 7	8	6 -	1111	- 1		1111		- 1	1	1 6 2 2	5 - 2	16 - 8	7 -
Artillery Whitechapel Spitalfields	6651 15844 15550 11434 7823 10381 9149	5 11 10 10 8 7 8	8 10 5 17 2	7 1 3 3 1	2 - 1 1 3	1111111	1 1 1 -		111111	11111		1111111	1111111	1 2 2 2	3 -	2 1 5 -	7 12 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	179 <sup>9</sup> 6 21356 8973	6 14 2	9 9 8	3 2 1	2 1 2	-	1 1	-	-	ĩ				2 -	ī	1 - 2	- 4
Shadwell W Ratcliff WH Limehouse W	11623 15930 30025	8 6 15	20 10	1 7 2	2 1	=	-	-	-	ī	=	1	-	1 2 -	2 -	2	3
Mile End Old Town West Mile End Old Town East WwH	38126 55020 67777	28 33 43	16 27 46	7 5 21	2 6 4	3	1 -	1	1	1 2	-	6-	-	6	1 2 3	3 3 1	3 7
Poplar WH	14547 15667 20430 16694 18959 23673 48232 16786	10 8 9 15 12 19 43 12	17 4 3 6 8 10 6 15 6	1 2 1 6 5	11133-11-	1 1 3 1		1 2 -		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	1	1 1111111	1 1 1 1 2 2 1	1 - 1 - 6	1 - 1 - 6	1 1 3 - 16
St. John Horsleydown W	4157 10595 16785 15707 47921 25873	12 11 6 40 15	11 11 18 12	2 1 3 6 2	5 - 5 1 3	1 1 2 -	1 - 1	2 -			ī	11111	11111	1 2 -		- - 1	1 -4 - 5
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 35831 41284 81218 35431 12534	10 22 15 30 24 11 17	4 7 11 17 18 15 24 3	1 3 4 8 3 4 3 1	1 3 1 5 1 3 -	3 10 10	1	111		1	1111111	1	1111111	1 2 3 1 4 1	1 1 1 -	2 1 - 1 -	- 44 - 8 -
Clapham HL Battersea W Wandsworth HL Streatham	27348 53988 19797 9438 14179	13 44 18 6 6	7 28 12 5 7	10 2 2 2 1	3 2 2 4	3 -		1 1				1111	1 : : : : : : : : : : : : : : : : : : :	2 2 -	- - 1	5 - 1	351
Dulwich	4741 31251 4:159 88851	1 24 24 29	10 14 14	1 2 5	- 4 2 3	- 3	- - 1	1-	=	1177		-		3 2 1	7 1 1 2	-	4
St. Paul Deptford	53696 6487 21098 19320	41 6 14 20	22 8 6 11	9 1 2 4	2 1 1	1 -				ī	1111		1 1 1	5 - 2	1 1 1 1		
Eltbam	4528 16430 11508 19016	1 3 7 18	- 8 9 7	- 4 3	- 1 - 2			2			. 1 1 1	1 1 1		- 2	1111		1
Charlton H Woolwich Dockyard Woolwich Arsenal H	9503 17229 18319 13 28 1 200	4 6 8 10 5	5 8 4 5	3 2 2	3 - 1 -		1111	1111	1111	11111	1111	1111	1111	2 2 1 4	11111	11111	1 -

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand - , , Tottenham-court sub-district.

London City - , , Islington East.

Do. do. - , , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.

London City , , , Mile End Old Town Eastern sub-district.

Stepney - , , , Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL UBSERVATORY, GREENWICH, during the Week ending Saturday, 23d September, 1871. [Under the Superintendence of the Astronomer Royal.]

-	_							1116	teor	rologi		OUS	100	rvations	•					-
-				Ozone	:	::	::	:	:	:	26			hose dry dry	hve laily	sults the well	rage srva- r 31.	d as	the of	ased
RAIN.		Collected in a	whose	surface is 5 in. above the ground.	Inches 0.00	00.0	00.00	00.0	0.10	Sum 0.10	25			above the mean ident with those aken at 9h. A.M.; ometer, the dry erted into mean	S., from b mean o	The results include the P.M. as well	termined by The average ical observa- December 31.	nd-"lou nderstoo	the depted in th	the wee
		Robinson's.	Amount of	Movement of Air each day.	Miles.	264	128	331	155	Sum 1503	24			sidered to be 159 feet above the mean considered to be coincident with those The observations are taken at 9h. A.M.; p. readings of the barometer, the dry these times, are converted into mean	sher, F. K.; 1848. The	edition. column 7,	to each. srmometri ing 1863, 1	igher," ar e to be u	hip, at the registere	inning of 1e 23d; ar
	Pre		refoot.	Mean of 24 Obs.	lbs. 0.2	0.0	0.0	0.5	0.0	:	23			be 159 feet I to be coinc vations are to of the bar- ies, are conv	s Glais	ourth bed in h. P.M.	momet pplied the the	and "h ons are	olice S nts are by ne	e begi
П	emomer		onsdna	Least.	lbs. 0.0	0.0	0.0	0.0	0.0	: .	222			ed to iidered observ idings se tim	ans., I	oles, Forexpires	n ther being a from 50 year	t+is reservati	trume	at th
WIND.	from A	S.	Pressure on square foot.	Great-	lbs.	1.4	0.1	2.2	0.5	: ;	21			onsider re cons . The he res at the	Phil. T	al Tal	inimu tions k laisher n the	nd tha ical ob	Scorpic ese insured the	or Poli 0.09 in in. by
	As daduced from Anemometers	Osler's.	Direction.	P.M.	ENE.& NE.	N. by E. NE. &	SE. & ENE. N, NNW,	WSW	S. & ENE.	6	50	NOTES.		meter is constoned arometer and parometer and means of the parometer and	strons dedu ar 31.—See I	Iygrometric or the nul ad at 9h. A	tum and no oper corrected by Mr. Greenwich, i	borne in mi meteorolog ht to midn	thames is e of the "dings of the story out box	Metropolita sed from 3 ed to 29.71
			General Direction.	A.M.	NE.	NNE. &		W. by S.	WSW&SW.	NE	19			The height of the citient of the banometer is considered to be 199 feet above the mean level of the sea. The readings of the banometer are considered to be coincident with those of the Royal Society's fluit glass standard banometer. The observations are taken at 9h. A.K.; none 18h. E.K. The means of the readings of the banometer, the dry thermometer, and the wet theremometer, losserved at these times, any converted into mean	daily values by the application of corrections deduced by James Claistier, F.K.S., from 1996 years' observations entitle 1845, December 31.—686-Phill Tyram, part 1, 1848. The mean daily years' observations entitle 1845, December 31.—697-697-697-697-697-697-697-697-697-697-	were pulsuature-green on mandating are distructured mind manda entering and mandating are pulsuatured to the pulsuature of the arriver are pulsuatured to the pulsuature of the air, or the numbers exhibited in column 7, include the observations of the diverthermometer, read at 91. A.m.: moon; 81. P.m.: and 91. P.m. as well	as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observation; Greenwich, in the 50 years ending 1893, December 31.	Fir reading the 17th column it will be borned in mind that + is read "higher," and - "forger," than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight.	The compensation of the Water to the Limites a sectional of the Use of softweet softweet the California of the California of the California of the California of the California of the California of the California of the California of the California of the California of the California of Californi	Henderson, R.E., C.B., Commissioner of Metropolitan Police. The reading of the barometer decreased from 39 '09 in. at the beginning of the week to 29 '36 in. by 31, P.M. on the 21st; increased to 29 '71 in. by 31, A.M. on the 23st, increased to 29 '33 in. by the end of the week.
Dograd	of Hu-	- 0	being		74	62	12 73	65	08	20	18			cistern he reading sint gland gland. P. P. he wet the	application of the state of the	ters by C perature dry therr	ced from thermome hir is that	th columnia the result day, or fi	ended from he surface the first the residual	B., Commine barom on the 21 ad of the
E	Rotwoon	mean tem-	the day and mean tem-	the same day on an average of 50 years.*	00.3	0.5	1.9	4.3	- 7.3	4.2	17			The height of the level of the sea. Tof the Royal Society noon; 3h. P.M.; ar thermometer, and	es by the	thermome daily tem	gistering the street of the street nat the F	ling the 17 verage. 7 to the civil	theracure sters, susp et below t	ding of the y 3h. P.M.
DIFFERENCE	Doing	roint	ture.	Least.	o.:	100	4.6	6.0	6.0	3.4	16			he hei sl of the he Roy n; 3h	ly valu	bulb mean	the res self-re	In read n the a llying t	rmome out 2 fe	nderso the rea 36 in. b
DIF	J. C.	Setween Dew Fo Femperature and	Air Temperature	Great-		20.5	16.4	19.6	12.9	17.7	15			of t noc the	dai					
	0	J.	Air	daily value,	0.80	13.3	8.7	11.5	5.8	6.6	14					l in the	vercast rain fell	time to	revalent	inder o
one and		n the Water of the Thames at	Greenwich, by self-registering	Lowest.	59.6	59.8	57.8	56.5	55.2	57.8	13					ort period	night. (Irops of	cloud varying from time	clouds p	Rain con the rema
rading o		In the V	Greenwich, by self-registering	Highest, Lowest,	64.1	63.4	62.3	61.4	60.4	62.3	12	HERE				n of a sh	g and at A few c	nd varyi	Light	ghout.
ETERS.	Lowest 1	on the Grass, as	a self-	ing Minimum Thermo-	6.8	45.5	36.8	27.8	27.3	36.6	11	AND ATMOSPHERE		at night.	oudy.	exception	v mornin 4b. P.M.		at night. Light clouds prevalent	ndy throu
THERMOMETERS	Wighoot in	the sun, as	tering Thermo-	backened bulb in vacuo, placed on the Grass.	0.58		115.1	126.3	71.7	108.7	10			Cloudless at night.	day, though generally cloudy	sst throughout, with the exception of a short period in the n.	Generally cloudless in the early morning and at night. Overcast and gloomy between noon and 4h. P.M. A few drops of ruin fell about 3h. P.M.	A very fine day. The amount of time. Slight fog at night,	morning and a Very fine.	in early morning. Cloudy throughout. Rain commenced thout 3h. R.M., and continued throughout the remainder of
		Point.	Mean	daily value.	, 4 , 5		45.4	39.7	42.1	43.7	6.	SKY		ast till noon.	though	rougho	loudless between	e day.	in mor	arly mo 3h. P.M
READINGS OF			Mean	daily value.		, 4, 4,	54.1	51.2	47.9	53.6	00			Overcast ti	A fine day,	Overcast th	gloomy	slight	Cloudless in a	ggy in e g about ay.
		Dry.	Range	in day.	3.0	14.5	16.4	1 23.6	17.7	17.9	-					Overce	Ge.	time.	Cloud	Foggy falling all the day.
		1	_	- Low-	0.13	51.4	2 48.8 5 43.4	0 40.4	0.68 2	1 46.3	9			own at					ight.	e latter
-	1	bo		o High-	019	0 64	6 65.2	9 64.0	3 56.7	5 64.1	2	CITY		sitive sh		WD.	ositive.	в врочи.	tive at n	aring th
	METER.	_		duced to 32 degr. Fahren heit).	in.	29.954 65.9 51.4 1 29.910 64.4 49.4 1	29.716	629.62	29.593	29.745	4	ELECTRICITY		weak ров		icity sho	al weak I	No electricity was shown.	reak posi	sitive di
Moon		-	PDASES	Moon.		:::	Perigee			:	8	E		A little weak positive shown at	mgnr.	No electricity shown	Occasional weak positive.	No electr	A little weak positive at night.	Weak positive during the latter portion of the day.
			DAY.		ER.	138	v 20 • 21	- 22	23	1.	mns.			. 1	18	19	20	23	55	23
		1871.	MONTH AND DAY.		SEPTEMBER.	Monday	WEDNESDAY.	FRIDAY.	SATURDAY	MEANS	No. of Columns.	DATE.	Tanamar,	SUNDAY .	MONDAY .	TUESDAY .	WEDNESDAT	TRURSDAY.	FRIDAY .	SATURDAY.

# WEEKLY RETURN

## DEATHS NINETEEN OTHER LARGE OF THE UNITED KINCDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 39. 1871. Vol. XXXII.) WEEK ENDING SATURDAY, SEPTEMBER 30. [Price  $1\frac{1}{2}d$ .

General Register Office, Somerset House, 2d October 1871.

During the week ending Saturday the 30th ultimo, 4817 births and 3602 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 26 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the Seventeen English Cities and Towns were as follow: London 22 per 1000; Portsmouth 23, Norwich 26, Bristol 22, Wolverhampton 34, Birmingham 23, Leicester 34, Nottingham 31, Liverpool 30, Manchester 33, Salford 32, Bradford 31, Leeds 34, Sheffield 31, Hull 32, Sunderland 47, and Newcastle-upon-Tyne 36. The fatal cases of diarrhœa, principally infantile, in these towns, which had been 916 and 685 in the two previous weeks, declined to 492 last week, or equal to an annual death-rate of 4 per 1000 persons living; the death-rate from this disease was less than 2 per 1000 in Bristol and Sunderland, while it was 8 in Birmingham and Wolverhampton, and 9 in Leeds. The deaths from small-pox in these seventeen towns, which had been 120 and 154 in the two previous weeks, were 131 last week; of these, 51 occurred in London, 33 in Sunderland, 14 in Newcastle-upon-Tyne, 8 in Sheffield, 9 in Manchester and Salford, 5 in Wolverhampton, 4 in Liverpool, and 2 each in Bristol and Norwich. The annual death-rate in Sunderland from small-pox alone during the thirteen weeks ending last Saturday was equal to 19 per 1000 persons living.

In Edinburgh the annual rate of mortality from all causes last week was 25 per

1000 persons living, in Glasgow 28 per 1000, and in Dublin 23.

In Paris 831 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 24 per 1000 of the estimated population. In Brussels 106 deaths occurred in the week ending 23d ultimo, and the annual deathrate was 30 per 1000. In Berlin during the week ending 28th, 666 deaths were recorded (of which 113 were referred to small-pox, 98 to infantile diarrhea, and 11 to cholera), showing an annual rate of 39 per 1000. In Vienna the 322 deaths in the week ending 23d gave an annual rate of 27 per 1000. In Rome 118 deaths were registered in the week ending 17th, and the annual death-rate was 27 per 1000.

In Koenigsberg the fatality from cholera is declining; in the week ending last Thursday 23 deaths were reported, against 52 in the week ending 14th ultimo.

Stettin 3 fatal cases occurred last week.

In the City of New York 555 deaths were registered in the week ending 9th ultimo, and the equivalent annual rate of mortality was 31 per 1000.

In Bombay the deaths registered during the week ending 5th ultimo were 282, and the mortality was at the annual rate of 18 per 1000. In Madras the 237 deaths in the week ending 18th August showed an annual death-rate equal to 29 per 1000 of the population.

In London 1889 BIRTHS and 1390 DEATHS were registered last week. After making due allowance for increase of population, the births were 346 below, while the deaths exceeded by 5, the average numbers in the corresponding week of the

last ten years.

The 1390 deaths in London last week included 51 from small-pox, 18 from measles, 36 from scarlet fever, 6 from diphtheria, 30 from whooping-cough, 39 from different forms of fever (of which 8 were certified as typhus, 23 as enteric or typhoid, and 8 as simple continued fever), and 153 from diarrhea; thus to the seven principal diseases of the zymotic class 333 deaths were referred last week, showing a further decrease of 63 upon the steadily declining numbers in

the five preceding weeks. The largest decline last week was shown in the fatal cases of small-pox and diarrhea, while the 23 of enteric fever showed an increase, and included three in Fulham, and two in Peckham.

The mean temperature last week was again considerably below the average in the corresponding week of 50 years. The deaths from diarrhea in London, which in the five previous weeks had steadily declined from 487 to 205, further decreased to 153 last week, which was, however, just double the corrected average number in the corresponding week of the ten years 1861–70. The 153 last week included 128 of infants under two years of age, and 10 of persons aged 60 years and upwards. Seven deaths were referred to cholera and choleraic diarrhea last week, against 15 and 2 in the two previous weeks; two were adult cases, the wife of a waiter, aged 43 years, who died from "English cholera, exhaustion, 7½ hours," and the widow of a bank porter, aged 74 years, on whom an inquest was held, the verdict

being "found dead; choleraic diarrhea."

Dr. E. Frankland, F.R.S., in his usual monthly report upon the quality of the Metropolitan water supply, states that the London waters have been submitted to investigation, as regards efficient filtration and freedom from suspended matter, on five distinct occasions during September. Excepting occasions when the Southwark and Vauxhall Company delivered slightly turbid water in Southwark on 23d and 26th instant, the result of these investigations was entirely satisfactory. The analyses of the waters showed a marked general improvement upon the quality of those supplied in the previous month. The best river water, that supplied by the Chelsea and Grand Junction Companies, contained, however, more than four times as much organic matter as that supplied by the Kent Company, which is drawn from deep chalk wells. The London river water during the summer months was "vapid and unpalateable," from its high temperature, which ranged from 66° 2 to 71° 6 Fahrenheit (19° to 22° Centigrade), while the Kent deep well water maintained a steady temperature of 59° Fahrenheit, 15° Centigrade. Dr. Hill reports that the Birmingham water supply during September was more turbid and impure than it had been for some months.

The fatal cases of small-pox in London, which in the two previous weeks had been 57 and 89, declined again last week to 51, which were, however, 39 in excess of the corrected average number in the corresponding week of the ten years 1861-70. In the four small-pox hospitals at Hampstead, Islington, Homerton, and Brixton, 19 deaths were recorded last week. The greatest fatality was shown in

Walworth, Islington, and Battersea.

To different forms of violence 44 deaths were referred last week; of these, 35 were the result of accident or negligence, including 18 from fractures and contusions, 4 from burns and scalds, 6 from drowning, and 5 from suffocation, of which 4 were of infants. Of the deaths from fractures and contusions, 6 were caused by horses or vehicles in the streets; 2 were of children run over by tramway cars, and the other 4 of children and adults resulting through injuries from vans.

Four deaths of persons aged 90 years and upwards were recorded last week; a shoemaker in the Bethnal Green Workhouse was stated to have attained the age

of 103 years.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.37 in.; the highest reading was 29.73 in. on Saturday evening, and the lowest 28.77 in. on Thursday morning. The mean temperature of the *air* was 50°.2, or 4° 3 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature on Wednesday was 55° 5 and showed an excess of 1°.1, but with this exception it was considerably below the average on each day of the week; the coldest day was Sunday, 24th ultimo, when the mean was only 47°·4 and the deficiency 7°·6. The highest day temperature in the shade was 65°·6 on Wednesday; the lowest night temperature 41°·9 on Monday; the entire range of temperature in the week was, therefore, 23°.7. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 108° · 0 on Wednesday. The difference between the mean dew-point temperature and air temperature averaged 3°.6. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 56°·2 last week. The mean degree of humidity of the air was 88, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air in the week averaged 12 miles per hour. Rain fell during the week to the amount of 3 34 ins.,

of which 1.14 in. was measured on Sunday, 24th ultimo.

The mean temperature of the week in the other large English towns furnishing returns ranged from  $45^{\circ} \cdot 4$  in Salford, to  $50^{\circ} \cdot 9$  in Portsmouth; the lowest recorded night temperature was  $34^{\circ} \cdot 0$  in Salford, and the highest day temperature in the shade  $65^{\circ} \cdot 2$  in Portsmouth. A considerable amount of rain was measured last week in all these towns; it varied from  $2 \cdot 02$  in. in Manchester, to  $3 \cdot 86$  in. in Birmingham.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 10°·1, or 2°·4 below the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 18°·7, the lowest night temperature 3°·3, and the highest temperature in the sun was 42°·2. The wind blew at the rate of 19 kilometres an hour, and the rain-fall measured 8°·48

centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 410,023 cubic metres, and at Barking 255,518 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

The REGISTRAR GENERAL has to acknowledge the courtesy of the London Water Companies, who have furnished him with the average daily quantity of Water supplied for the month of August 1871: thus, according to their account, 116,799,067 gallons or 530,672 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 238.6 gallons (108.4 decalitres), rather more than a ton by weight, to each house, and 33.6 gallons (15.3 decalitres) to each person.

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of August 1871, it may be estimated that about 95,775,235 gallons were probably used for domestic purposes, or about 27.6 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Registrar General has no means of giving a more exact estimate.

Companies.		Houses, &c.	in Gallons (in Manufactures purposes other	upply of Water cluding that for and for various er than for do- mption) during
	JULY	August	JULY	AUGUST
	1871.	1871.	1871.	1871.
TOTAL SUPPLY	489,331	489,545	112,107,697	116,799,067
From Thames . From Lea and from other Sources	227,286	. 227,443	58,529,736	59,685,510
	262,045	262,102	53,577,961	57,113,557
THAMES. Chelsea West Middlesex Southwark and Vauxhall Grand Junction Lambeth	27,838	27,838	9,000,800	9,291,700
	42,370	42,502	10,275,328	10,520,511
	78,504	78,552	16,436,494	16,438,414
	31,820	31,820	11,590,874	11,614,414
	46,754	46,731	11,226,240	11,820,471
LEA AND OTHER SOURCES.  New River East London	119,062	119,119	24,986,000	27,452,000
	102,624	102,624	21,279,000	21,877,500
	40,359	40,359	7,312,961	7,784,057

Note.—The Return for August as compared with that for July shows an increase of 214 houses and of 4,691,370 gallons of water supplied daily.

### ANALYSIS OF METROPOLITAN WATER SUPPLY FOR SEPTEMBER.

Sire,

Royal College of Chemistry, 29th September 1871.

I HAVE the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the Metropolis during the month of September, and I append also the results yielded by the Birmingham water supply furnished by Dr. Hill.

The waters have been submitted to investigation as regards efficient filtration and freedom from suspended matter on five distinct occasions during the month. The results of this investigation

were entirely satisfactory in all cases except one,—the Southwark and Vauxhall company delivered slightly turbid water from their main in the borough of Southwark on the 23d and again on the 26th instant.

In comparison with my returns for last month, the analyses of the waters derived from the Thames and Lea and distributed by the Chelsea, West Middlesex, Southwark, Lambeth, and East London companies show, this month, markedly smaller proportions of organic matter; nevertheless the best river water (that furnished by the Chelsea and Grand Junction companies) contains more than four times as much organic matter as that present in the deep well water pumped from the chalk by the Kent Company, and nearly three times as much as that found in the New River Company's water, which is largely derived from wells and springs in the chalk strata.

During the summer months the river water delivered in London has been vapid and unpalateable owing to its high temperature, which has ranged from 19° to 22° C. (66°·2 to 71°·6 Fahr.), whilst the deep well water of the Kent Company has maintained a steady temperature of 15° C. (59° Fahr.)

the deep well water of the Kent Company has maintained a steady temperature of 15° C. (59° Fahr.)

The active vegetation in the Thames has reduced the evidence of the previous sewage contamination of the water to a minimum, whilst the same agency, aided by long storage, has entirely obliterated it in the East London Company's water.

Dr. Hill reports that the Birmingham water supply was more turbid than it has been for some months, and less pure in all respects.

The Registrar General, &c., &c.

I have, &c., E. Frankland.

### RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

COMPANIES.	Date and Place of Collection,	Temperature in centigrade degrees.	Total Solid Impurity.	Organic Carbon.	Organic Nitro-gen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sew- age or Animal Contamina- tion. (Esti- mated.)	Ohlorine.	Total Hard- ness.
THAMES. Chelsea	{ 4th September, Cab Rank, Horse Guards }	19.2	25*88	•118	*027	•000	•074	*101	420	1.80	20.90
West Middlesex -	{ th September, Cab Rank, Portland-road }	20.5	25.48	•133	.019	.000	.074	.093	420	1.73	20.00
Southwark and Vauxhall -	{ 4th September, Cab Rank, St. George's Church, Borough. }	21.0	23*84	•128	*029	•000	•073	102	410	1.75	20.90
Grand Junction -	$\left\{\begin{array}{c} \text{4th September,} \\ \text{Cab Rank, Woodstock-} \\ \text{street.} \end{array}\right\}$	19.0	24*20	<b>1</b> 30	•018	•000	•078	*096	460	1.75	20.00
Lambeth	{ Ath September, Cab Rank, Lambeth-road }	20.2	24.80	•142	•024	•000	*093	•117	610	1.80	20*60
OTHER SOURCES. New River	{ 4th September, Cab Rank, Tottenham-court-road. }	20.3	24.34	•042	•011	•000	•144	•155	1120	1.62	20.00
East London	$\left\{\begin{array}{c} \text{4th September,} \\ \text{Royal Hotel, Mile-end-} \\ \text{road.} \end{array}\right\}$	20.0	20.98	*155	•034	*000	*017	*051	. 0	2.12	18.28
Kent	{ 4th September, Deptfd. Bdge. Police Stat.}	15.0	38.96	•027	*008	•000	*378	*386	3460	2.43	30.00
Birmingham*	{ 5th September, Birmingham Waterworks }		38.66	*415	*064	*004	•215	*282	1869	3.36	18.00
Column 1.	2.	3,	4.	5.	6.	7.	8.	9.	10.	11.	12.

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 4th September at the Horse Guards' cab-rank had a temperature of 19° 5 C.; 100,000 lbs. of it contained 25 88 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained 118 lb. of carbon and 027 lb. of nitrogen. The above quantity of water contained no ammonia, and 074 lb. of nitrogen in the form of nitrates and nitrites, whilst the total amount of combined nitrogen in every form was 101 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contaminated with animal matter equivalent to that contained in 420 lbs. of average London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 1 80 lbs. of chlorine. Finally, 100,000 lbs. of the water contained 20 90 lbs. of carbonate of lime, or an equivalent quantity of other hardening or soap-destroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation

transforms the hardness in the Table into degrees of hardness on Clark's scale.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the THIRTY-NINTH Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1871
TOTAL Births  Males Females .	1848	1742	1801	2023	2156	2146	2136	2131	2119	2216	2031 8	1889
	925	899	948	1062	1066	1057	1122	1062	1076	1099	1031 6	976
	923	843	853	961	1090	1089	1014	1069	1043	1117	1000 2	913
Total Deaths Males Females .	1108	1140	1233	1284	1214	1418	1194	1327	1395	1277	1259·0	1390
	578	575	618	670	616	693	626	664	694	652	638·6	686
	530	565	615	614	598	725	568	663	701	<b>6</b> 25	620·4	704

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	July 8.	July 15.	July 22.	July 29.	Aug. 5.	Aug. 12.	Aug. 19.	Aug. 26.	Sept.	Sept.	Sept. 16.	Sept.	Sept.
Total Deaths	1200	1259	1281	1420	1382	1568	1715	1682	1485	1422	1422	1411	1390
Deaths under 5 years of age - Deaths 5—20	466 122	507 127	578 97	739 104	706 106	825 125	960 107	967 100	824 86	767 94	717 112	686 97	590 107
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	199 190 185 38	202 182 197 44	200 212 164 30	203 159 177 38	177 188 165 40	192 193 193 40	187 204 217 40	194 197 180 44	178 184 178 35	189 161 160 51	178 223 157 35	201 203 181 43	206 245 202 40
Deaths from Smallpox , Measles , Scarlet Fever - , Diphtheria - , Whooping-cough , Typhus fever - , Enteric (or Ty-)	164 12 24 4 30 8	133 22 40 9 23 7	135 17 24 1 28 5	122 18 19 8 22 9	87 18 24 5 25 6	96 28 30 5 41 6	80 19 21 4 30 7	82 20 24 6 25 4	78 19 24 9 32 7	81 21 26 3 26 8	57 16 32 8 32 11 25	89 23 27 .7 24 3	51 18 36 6 30 8
phoid) fever - \( \) , Simple Cont <sup>d</sup> fever , Diarrhœa - , Simple Cholera -	5 39 3	6 64 4	10 110 9	7 201 17	4 225 18	7 299 15	5 425 40	7 487 28	353 20	11 293 24	11 268 15	6 205 2	8 153 7
", Phthisis Bronchitis Pneumonia - Heart Disease -	165 59 44 68	148 68 37 48	144 59 40 56	149 48 52 49	152 68 40 65	147 51 34 62	138 53 34 67	145 53 30 60	164 59 37 61	153 47 38 49	146 58 39 62	139 62 37 54	166 83 39 71
Mean Temperature of the Air	60.5	61.7	65.5	60.4	60.3	68.3	67.1	63.0	64.0	60.5	62.6	53.6	50.2
Mean Temperature of the Water of the Thames -	61.4	63.2	65.6	65.6	63.9	66.4	69.6	70.5	64.5	64.6	63.4	60.1	56.2
Humidity of the Air	76	78	75	75	70	68	69	76	71	78	71	70	88
Rain-fall in inches	0.87	1.51	0.05	0.66	0.23	0.00	0.69	0.09	0.02	0.66	0.00	0.10	3.34

### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Olid Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered and METEOROLOGY during the Week ending Saturday, the 30th day of September 1871, in the following large Towns.

			A			-					
CITIES	Area	Population estimated	Persons	Births registered	DEATHS registered		ATURE OF		TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALL.
BOROUGHS.	in Acres.	to the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 30th Sept.	during the Week ending 30th Sept.	Highest during the	Lowest during the	Weekly Mean of the Daily	Weekly Mean of the Daily	In Inches.	In Centi- metres.
(Municipal Boundaries for all except LONDON.)				1871.	1871.	Week.	Week.	Mean Values.	Mean Values.		mones.
rotal of 20 Towns in the United Kingdom: -	213,281	7,204,001	33.8	4817	3602	65.6	31.8	47.4	8.55	2.64	6.71
LONDON	77,997	3,263,872	41.8	1889	1390	65.6	41.9	50*2	10.11	3.34	8.48
PORTSMOUTH	9,513	113,450	11'9	. 60	49	65.2	35.2	50.9	10.20	2.45	6.22
NORWICH	7,472	80,533	10.8	40	40	59.8	40.2	49.4	9.66	3.18	8.08
BRISTOL	4,688	183,298	39.1	102	- 77	_		-		-	-
WOLVERHAMPTON -	3,387	68,476	20.2	· 41 -	44	56.7	40.5	47.2	8.44	2.95	7.49
BIRMINGHAM	7,831	344,980	44'1	236	151	57.6	40°0	47.8	8.78	3*86	9.80
LEICESTER	3,200	95,882	30.0	47	63	58.2	38.5	47.4	8.22	3.38	8.28
NOTTINGHAM	1,996	86,929	43.6	33	52	62.6	37.9	48.0	8.89	3.50	8.13
LIVERPOOL	5,108	494,649	96.8	362	286	55.9	40.5	47.3	8.20	2.50	5.28
MANCHESTER	4,486	356,099	79.4	265	223	61.0	35.0	47.3	8.20	2.05	5.13
SALFORD	5,172	125,422	34.3	83	. 78	56.5	34.0	45*4	7.44	2.50	6.32
BRADFORD	6,590	146,987	22.3	. 182	86			_	_		
LEEDS	21,572	260,657	12.1	269	170	60.0	40*0	48.4	9.11	3.23	8.97
SHEFFIELD	22,830	241,507	10.6	208	144	57.0	36.0	46.2	7.89	3.69	9.37
HULL	3,562	122,266	34.3	67	. 74	56.0	37.0	46.0	7.78	2.47	6.27
SUNDERLAND	3,306	98,797	29.9	89	89		_	_			
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	.136	89	53.0	41.0	45.9	7.72	3.12	7.92
EDINBURGH	4,427	201,728	45°6	127	98	52.7	37.0	45.2	7:33	0*60	1.52
GLASGOW	5,063	479,227	94.7	. 348	261	54.6	33.6	45.4	7.44	0.30	0.76
DUBLIN	9,745	310,565	31*9	233 .	138	59.0	31.8	48*4	9.11	2*03	5*16

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by adding 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs showed a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Week ending Saturday the 30th day of September 1871.

-	ANNUAL RATE				The	DEAT	н <b>s</b> regi	stered i	n the V	Week in	clude			
BOROUGHS, &c.  (Municipal Boundaries for all except London.)	of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Institutions.
Total of 17 Towns -	26	3105	949	482	131	28	84	15	55	110	492	91	171	380
LONDON	22	1390	336	241	51	18	36	6	30	39	153	44	90	218
PORTSMOUTH	23	49	17	5	1	1	1	_	-	2	11	1	3	4
Norwich	26	40	17	8	2	-	~	-		1	9	2	2	5
BRISTOL	.22	77	18	19	2	1	1		-	6	5	4	5	3
WOLVERHAMPTON -	34	44	15	5	5	2	_	-	1		11	2	2	7
BIRMINGHAM	28	151	66	16	1	1	2	-	1	4	50	2	7	9
LEICESTER	34	63	28	11	4	_	1	-	-	4	12	2	6	1
NOTTINGHAM	31	52	11	9	1	2	1	1-1		6	12	2	- 3	7
LIVERPOOL	30	286	106	51	4	1	15	6	4	8	53	11	15	38
MANCHESTER	33	223	72	26	4	-	9	-	7	5	45	5	15	18
SALFORD	32	78	24	11	5	-	2	-	-	4	13		2	8
BRADFORD	31	86	38	10	-	-	1	1	2	1	19	2	4	4
LEEDS	34	170	73	18		_	2	1	2	14	45	2	4	15
SHEFFIELD	31	144	57	17	8	_	4	1	4	5	25	4	4	14
HULL	32	74	26	12	_	_	3		2	3	14	4	4	4
SUNDERLAND	47	89	27	12	33	_	4		2	7	3	3	3	. 8
NEWCASTLE-ON-TYNE -	36	89	18	11	14	2	2	-	-	1	12	1	2	17
DUBLIN	23	138	36	23	-	-	1	-	-	2	21	-	4	47

# TABLE 5 .- DEATHS in LONDON Registered in the THIRTY-NINTH Week of the Year 1871.

TABLE C. D			-	-					the THIRTI-NINTH WEE								
	he 7 eek 81-70.	Satu	In t	he W	eek e	ndir ber å	ng 30, 18	371.		Averages of the Thirty-ninth Week in the 10 years 1861-70.	Satu	In the	he W	eek	endii er 3	ng ), 187	71.
	Averages of the Thirty-ninth Week the 10 years 1861-70		Deat	hs of the	Pers Ages	ons	of			nth Wars 18		Deat	hs of the	Per Age	sons	of	
CAUSES OF DEATH.	rerage rty-ni 10 yea	ALL AGES.		der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	verag rty-ni 10 ye	ALL AGES.	Uni 20		r 40.	r 60.	r 80.	and
	Thin the	Mean	_		under	under	under			Thi in the	Mean		-	under 40	under	under	ars sards.
Mean Temperature -	55.6	Tem. 50.2	0-5.	5-20.	20 and	40 and	60 and	80 Years upwards	Mean Temperature -	55.6	Tem. 50.2	0-6.	5-20.	20 and	40 and	60 and	80 Years upwards.
		1390			206		202	40			1	1	-		-	_	<u></u>
ALL CAUSES	1259.0		587		205		201	40	9. Stricture of Intestines - 10. Fistula - 11. Stomach Disease, &c	6.6	1 8	-	-	-	- 6	1 2	-
I. ZYMOTIC DISEASES. ORDER 1.									12. Pancreas Disease, &c 13. Hepatitis 14. Jaundice	4·1 4·7 15·3	3 5 15	2	- 1	1	2	1	1
1. Small-pox	11·1 21·6	51 18 36	15	14	17	4	1	-	15. Liver Disease, &c 16. Spleen Disease, &c ORDER 5.	15 5		_	-	-	10	3 -	-
8. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy	9:0	6 2	24 4 -	12	1	1	-	-	1. Nephritis	1.1	4	2 -	1 -	1	-	-	-
6. Croup	15.6 27.4	13 30 8	12 26 1	1 3 2	1	- 4	-	-	3. Bright's Disease (Nephria) 4. Diabetes 5. Calculus (Stone)	9.6 1.4 .3	4 4 2 1	-	-	1	3 -	1 - 2	-
- Entericor Typhoid Fever - Simple continued Fever - 9. Erysipelas	51.9	23 8 13	7 1 4	5 3	4 - 4	5 2 1	2 4	-	6. Cystitis 7. Kidney Disease, &c	8.3	14	2	-	1	6	1 4	ī
10. Puerperal Fever (Metria) 11. Carbuncle 12. Influenza	4·9 1·4	5			5 -	-	-	-	ORDER 6.  1. Ovarian Dropsy 2. Uterus Disease, &c	1.0	- 3	-	-	-	- 2	-	ī
13. Dysentery	2.7 69.6 21.5	1 153 7	137 4	111	2	3	1 8 1	2	ORDER 7.  1. Synovitis (Arthritis)	•2	1	_	_	_	1	ī	Î
16. Ague	1.1	- 8	Į,	3	- 3	- 1	1	-	2. Joint Disease, &c ORDER 8.	4.6	9	3	5	1	_	_	
19. Other Zymotic Diseases - ORDER 2.	5'8	-	=	-	-				1. Phlegmon	1:7	1 1 1	- 1	1 -	-	-	<u>-</u>	-
1. Syphilis	7:1	5 -	5 -	-	-	-	-	-	3. Skin Disease, &c  IV. DEVELOPMENTAL						-	_	-
4. Glanders ORDER 3.		-	-	-		_			DISEASES. ORDER 1.	0047	01	21					
1. Privation	7.8 1.3	12	12	-	-	-	-	-	1. Premature Birth 2. Cyanosis 3. Spina Bifida 4. Other Malformations -	20·1 1·8 1·3	21 -	2	-	-	-	_	-
4. Alco- (a Del. Tremens - holism) b Intemperance - ORDER 4.	3.7	1 2	Ē	=	1 -	2			5. Teething	11.1	10	10 10		_	_	-	
1. Thrush	4.7	2	2 -	_	-	ĩ	Ξ	-	ORDER 2.  1. Paramenia 2. Childbirth (see Puer-)	5.5	- 5		-	- 5	-	-	H
II. CONSTITUTIONAL DIS. ORDER 1.									peral Fever)								
1. Gout	1:1 11:6 29:1	11 39	1	1	- - 4	1 4 20	1 4 8	1	1. Old Age ORDER 4.	41.2	40			-	-	21	19
4. Cancrum Oris (Noma) - 5. Mortification	2.6	ī	=	-	-	_	ī	Ē	1. Atrophy and Debility - V. VIOLENT DEATHS, &c.	63.9	98	87	_		2	9	
ORDER 2.  1. Scrofula  2. Tabes Mesenterica  3. Phthisis	9.7 24.8 142.9	7 27	5 26	1	-	-	1 -	I	ORDER 1. (Accident or Negligence.)								
4. Hydrocephalus	142.9	166 22	26 7 17	16	88	49	6		1. Fractures and Contusions 2. Wounds	17:2	18	3 -	3 -	5	4	3	E
ORDER 1.  1. Cephalitis	70.0	23	12			6			3. Burns and Scalds 4. Poison 5. Drowning	5.3 1.0 6.0	4 - 6	3 -	- 3	2	- 1	1 -	Ē
2. Apoplexy	12°3 29°4 23°6	38 33	2 1	1 -	5 3	10 12	17	1 3 1	6. Suffocation 7. Otherwise	8.3	5 2	2	_	1 -		_	
4. Insanity	1:3 6:2	10	3	ī	1 - 2	3	- 1		ORDER 3. (HOMICIDE.)								
7. Convulsions 8. Brain Disease, &c ORDER 2.	40°3 13°4	33 15	33 2	1	3	7	2		1. Murder and Manslaughter ORDER 4.	3.1	1	1	_		-	-	
1. Pericarditis 2. Aneurism 3. Heart Disease, &c	3°4 2°8 53°2	2 5 71	- - 1	2 -6	- 2 17	1 19	2 25	- 3	(SUICIDE.)	*1 ·7	1 2	-	_	-	1	-	-
ORDER 3.	4.2	5	2	-	2		1		2. Poison	1.0	3	-	-	- 1	1	2	Ē
2. Bronchitis	69.4 2.5 56.5	83 1 39	34 - 20	1 -	1 - 9	19	24 1 4	4	4. Hanging	2:0	-	-		-	=		-
5. Asthma 6. Lung Disease, &c	5.3	10	3	1	ī	1 2	3	E	ORDER 5. (EXECUTION.)					_			
ORDER 4.  1. Gastritis	2°2 6°5	4 5	- 2	-	-ī	2 2	2 -	I	1. Hanging		-		_	1	-	_	
3. Peritonitis 4. Ascites 5. Ulceration of Intestines 6. Harming of Intestines	4'1 8'3 2'3	6 7 5	1	1 1	4 -	1 4	2 3	-	Violent Deaths (not classed) Sudden Deaths (Cause un-)	2.4	1				-	_	
6. Hernia	2.6 1.9	3 1		-	1 -	1	3 -	1	causes not specified or ill- defined	7.1	5	3	-	1	-	1	-
	1	1						1							-		

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

												du	ring	the	Wee	k en	ding
		during	during				The	DEAT	ns re	gistere	ed in	the W	7eek i	nelude	3		
REGISTRARS' : SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total BIRTHS du	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhæa.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON -	 3,251,804	1889	1390	336	241	51	18	36	6	30	8	23	8	153	44	90	218
WEST DISTRICTS - NORTH DISTRICTS - CENTRAL DISTRICTS - SOUTH DISTRICTS	561,189 751,668 333,887 638,928 966,132	284 480 169 420 536	193 289 141 319 448	37 74 38 88 99	50 47 25 41 78	24 2 8 17	3 3 9	5 10 3 7 11	3 1 - 2	6 4 2 8 10	- 3 1 2 2	7 6 2 4 4	2 - 1 1 4	17 30 22 36 48	3 6 6 12 17	11 12 6 27 34	32 55 28 34 69
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Brompton H - St. Peter Hammersmith H St. Paul Hammersmith H Fulham WLLLL - Chelsea South HH Chelsea North-west HWw - Chelsea North-deast L - Hanover Square - May Fair W - Belgrave HH - St. John Westminster W St. James's Square Golden Square W - Gerwick-street - German H Berwick-street - German H Berwick-street - Berwick-stree	 58702 38082 91583 28651 6662 36030 23378 26419 23278 21389 18700 13020 58043 88470 27640 10453 12855 10279	28 57 15 3 17 13 14 18 16 8 4 26 21 16 7 8	17 12 35 12 16 14 5 13 5 6 3 12 19 7	1 - 1 - 1 - 2 3 - 3 4 1 - 1 - 2	5558 56 25 2 124 31	11111111111111	1	1 3	111111111111111111111111111111111111111	2		3 1 1	1	1 31 4		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36-4-218311-2
NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square - Rectory Marylebone H - St. Mary Marylebone H - Christchurch Marylebone - Hampstead WHH - Regent's Park Pancras - Tottenham-court will - Gray's Inn Lane H - Somers Town - Camden Town W - Kentish Town W - Islington West* WHHH - Islington East Www - Stoke Newington L - Stamford Hill - West Hackney - Hackney WHL - South Hackney L -	28574 15419 26587 21795 33892 33110 32271 38192 29360 29216 85562 18066 68198 97801 115948 9810 6599 28076 50087 50087	16 6 6 26 13 11 14 25 16 18 30 10 59 73 80 3 18 29 24	3 12 4 10 11 10 12 11 11 19 8 20 38 42 4 5 11 33 13	2 1 1 1 1 2 2 4 5 3 7 14 11 2 4 5 4 5 4 2	7113241-433191-142.	1 4 1 1 1 1 2 4 4 9 1		2 1 2 2 1 - 1 - 2 2 - 1 - 1 - 1	1	1	211	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11112 - 213 - 1 46 2231 -	111111111111111111111111111111111111111	113111	1 - 6 1 - 6 8 7 8 - 14
CENTRAL DISTRICTS.  St. George Bloomsbury - St. Giles South WH - St. Giles North - St. Maryle-Strand - St. Clement Danes H - St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hil Clerkenwell W St. Jacob Clerkenwell W Hentonville Clerkenwell - Clerkenwell - St. St. Giles Henton WHL Whitecross-street - Finsbury - St. Botolph East London HH Cripplegate - St. Sepulchre H - Castle Baynard - Castle Baynard - Christchurch - Queenhithe - Allhallows Barking - Broad Street -	17843 19089 16497 113926 9831 9376 10711 20521 18528 9051 18912 18978 16929 12156 1899 12156 1899 1489 1484 4389 4389 4484 4389 4484 4589 47838	879 322 4 12 13 41 18 711 4 15 13 2 5 7 5 5 - 2 4 2 4	37774322991768835322388310244661-1224	114 2 11 4 2 3 4 4 1 1 1 1 1 1 6 1 - 3 1 - 1	2 3 - 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			1		1			1 2 3 3 2 2 2 1 1 1 2	2 1 1	1	2 5 2

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;
H-Hospital;
L-Lunatic Asylum;
w-A Workhouse not belonging to the district in which it is situated.

<sup>†</sup> Officials of Public Institutions are not included. \* The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

Saturday, 30th September 1871.																_	
		during	during				The I	DEATH	is reg	istere	d in	the W	eek ir	elude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enteric (or Typhoid) Fever	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.	12429 16545 27832 26944 24153 19257	6 13 17 15 18 12	5 9 10 8 4 8	21112	1 2 1 - 0	11111	111111	1	111111	111111	111111	111111	11111	- 2	101111	11118	
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	29 21 12 13	16 29 20 15	7 13 7 4	2 7 3 -	1		1111		1 1 1	1 -	1		1 2 1	1 -	9	5 -
Artillery Whitechapel Spitalitelds	6651 15844 15550 11434 7323 10381 9149	4 11 7 12 8 5	6 9 6 2 11 5	2 2 1 - 3 2 -	1 3 - 1	111111	111111	1	1111111	1111111	1	111111	111111	1 3 - 2 1 -	1 - 2 1 -	1 - 2 2 -	7
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	14 17 8	11 8 3	5 -	1	111		1 -		ī -	-			1	1 -	1 -	- 1
Shadwell W Ratcliff W H	11623 15930 30025	7 9 20	9 8 14	3 2 4	2	1 -	=	ī		11	-	ī	111	1 1	2 -	3 -	-
Mile End Old Town West Mile End Old Town East WwH Bow WwHL†	38126 55020 67777	27 36 48 35	19 26 39 19	3 6 10 5	4 4 6 1	2	3	2		1 - 1		1	1 -	2 4 6 3	11 11	1	11
Poplar WH	14547 15667 20430 16694 18959 23673 48232 16786	5 2 6 10 4 7 36 10	3 5 9 4 9 11 36 4	2 1 2 1 4 10 1	1 1 2 8 1	1 - 4 -	2 - 1	111111111111111111111111111111111111111	111111	1	11111111	1.	1111111	1 3 1 1 2 1 1	11111111	1	1
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	3 8 15 38 12	17 5 7 8 18 10	- - 1 7 1	1 - 3 1 4		1 1 1 -	1 -	11111	1 - 1 -	1	1111	Tillia	1 8 7	8	3 - 1 1	16 1 - 1 - 4
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W Kennington 1st W Kennington 1nd Norwood W	14086 18453 19470 85831 41284 31213 85481 12534	5 16 15 21 18 18 23 6	4 11 11 17 16 7 21 2	1 4 1 5 4 2 6	1 2 2 4 2 - 8 1	- - - 1 6		1 1 1 1 -	11111	1 1 1 -		1	11111111	1 1 1 - 1 -	1 - 2 - 1 - 1	7 7 1 8 7 7 7 7	3 4 - 5 -
Clapham HL Battersea W	27848 53988 19797 9438 14479	11 32 10 4 11	11 27 8 3 4	1 4 1 - 2	7 1 -	2 -		- - 1	-	1			1 2 -	- 2 1	11111	1111	4 2 -
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4041 31251 42159 33851	1 12 21 20	13 17 12	- 4 4 8	2 2 1	,- 1	ī	7	1111	1 1 1		2 -	1111	4 2	1	2 -	1
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	35 3 16 13	19 5 18 11	3 1 6 1	6 1 3 3	- 1 -		1111	-	1111			1111	6	3 1 8	7 1 5 1	7
Eltham Lee Lewisham Village W Sydenham	4528 16430 11508 19016	5 8 6 9	2 2 9 8	i- 1 1	1 1 2 1	1111		2	- 1 1	11111				1111	2	2	
Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead, West Plumstead, East W	9503 17229 18319 13028 15290	2 9 15 11 9	8 9 10 4 13	2 2 4 2 4	2 2 1 - 3	innii	- - - 1	1 1 1	11111	ī	11111	1 1 1 1 1	1	2 - 2 2 4	1 -	2 2 - 1	3 6

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.
The Strand
London City - " " Tottenham-court sub-district.
London City - " " Islington East.
Do. do. - " " " Lunatic Asylums where paupers are admitted. Holborn Workhouse is in Hoxton New Town sub-district.

London City " Mile End Old Town Eastern sub-dist, and Stepney - " Bow sub-district.

Bow sub-district.

TABLE 7.—METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 30th SEPTEMBER, 1871. Under the Superintendence of the Astronomer Ronal.

											Met	eora	logic	al (
				•91	nozo		:, :	:	:	:	::		:	56
RAIN.	Collected	Gauge	receiving	surface	above the ground.	Inches	1.14	0.53	0.50	0.45	0.51	0.34	Sum 3.34	100
		Robinson's.	Amount of	Horizontal	of Air each day.	Miles.	888	207	242	303	265	332	Sum 1977	24
	eters.		refoot		Mean of 24 Obs.	lbs.	1.0	0.0	0.1	0.3	0.0	0.3	:	23
	nemom		SUD BUILD		Least.	lbs.	0.0	0.0	0.0	0.0	0.0	0.0	:	22
WIND.	from !	**	Draggire on sail are foot		Great-	lbs.	4.1	2.0	8.0	9.9	9 50	9.9	:	21
	As deduced from Anemometers	Osler's.			P. M.		WNW.&	ENE.	ENE.	'n	W,WNW, &N	NW. SW. & S.	able.	20
			Goneral Direction	Constant	A. M.	1	E. by N.	W. by S.	NE.		S. & w. by S. ENE.	SW &NNW NW. SW. &S.	Variable.	19
Degree	midity,	Satura-	tion	repre-	by 100.		84	85	16	-	86 86	73	88	18
E E	Between	mean tem-	the day and	perature of	the same day on an average of 50 years.*	c	9.4 -	6.9	1.9 -	+ 1.1	1.9	4.9 —	- 4.3	17
DIFFERENCE	oint		IT6		Least.	0	8.0	0.0	0.0	0.0	0.0	4.4	6.0	16
DIFF	Between Dew Point	Temperature and	Air Temperature	-	Great-	0	2.0	10.5	9.4	11.8	3.6	12.6	8.1	15
	Between	10.1	Air T	Mean	daily value.	0	4.5	4.4	5.6	2.2	0.2	8.1	3.6	14
		In the Water of the Thames at	Greenwich, by	meters	Lowest	c	55.7	54.4	55.5	52.3	54.8	53.7	54.5	13
ı		In the Water of	Greenwich, by	Thermometers	Highest, Lowest	C	59.4	59.0	58.1	9.49	57.6	9.99	6.13	12
rers.	Lowest	Grass, as	a self-	register-		C	35.2	34.3	87.0	0.98	44.4	35.6	37.8	11
READINGS OF THERMOMETERS.	Highest in	shown by	tering	Thermo	blackened Minimum bulb in vacuo, Minimum placed on the Thermo-Grass.	C	65.3	83.7	72.5	108.0	6.69	72.0	75.5	10
B OF T	Dew	Point.	Monn	Mean	value.	C	42.9	44.5	45.6	52.8	50.3	39.5	46.6	6
EADING			Moon	J. M.		C	47.4	48.9		55.5	52.3	47:6	50.5	00
2		1,0	Donge Monn	Dans.	day, value,	C	8.4	13.4	11.8	9.03	9.8 51.	11.6	12.0	1
		Dry.		Low-	est,	C	45.3	55.3 41.9 13.4 48	44.0	65.6 45.0 20.6		45.2	45.4	9
				High-	98t.	(	53.7	55.3	55.8 44.0 11.8		58.1	56.8 45.2	57.5 45.4 12.0 50.	עז
BARO-	Mean	reading	rected	and re-	32 degr. Fahren- heit).	in.	29.310 53.7 45.3	29.498	29.408	28.983	29.270	29.62	29.371	4
MOON.   BARU-			Phases	Jo	Moon.		•	:				Equator	:	00
		1421	1011.	Moved and Day		SEPTEMBER.	SUNDAY   24	MONDAY 25	Turena 96	. >		SATURDAY. 30	MEANS	No. of Columns

daily values by the application of corrections deduced by James Glaisher, P.R.S., from frow pears' observations ending 1845, December 3.1.—58e Phis. Trans., part. 1 1845. The mean daily values by the application of corrections deduced from those mean daily values of the dry and dew point and degree of humility are deduced from those mean daily values of the dry and we built themometers by Glaisher's Hygometrical Tables, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column?, include the observations of the dry thermometer, read at 9h. Am.; noon; 3h. P.M.; and 9h. P.M., as well as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average The height of the cistern of the barometer is considered to be 159 feet above the mean level of the sea. The readings of the barometer are considered to be coincident with those of the Royal Society's finit glass standard barometer. The observations are taken at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry thermometer, and the wet thermometer, observed at these times, are converted into mean temperature of the air is that determined by Mr. Glaisher From the thermometrical observa-tions taken at the Royal Observatory, Greenwich, in the 60 years enting 1865, December 31, \* In reading the 17th column it will be borne in mind that + is read "ingles-", and — "Longer," than the average, The results of all the meteorological observations are to be understood as Overcast till the afternoon, and rain fell occasionally; fine at night. Lunar halo. Rain fell very heavily throughout the early morning hours until Th. A.M., and a liele thin rain fell occasionally afterwards till noon; fine, and partially cloudy during the remainder of the day. Overcast. Rain fell heavily during the afternoon and evening.

AND ATMOSPHERE

SKY

ELECTRICITY.

not

lamp was

The insulating burning.

24

SUNDAY

SEPTEMBER.

DATE.

than the average. The results of all the meteorological observations are to be understood as applying to the civil day or from midnight to midnight.

The temperature of the water of the Thames is ascertained by the use of self-registering thermometers suspended from the side of the "Storpion" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the superintendence of the resident inspector on board the ship, by permission of Lieut.-Col. Henderson, R.E., C.B., Commissioner of Metropolitan Police, at the beginning of the week to 29.17 in by 9h. A.M. on the 24th, increased to 29.73 in. by 9h. A.M. on the 24th, increased to 29.74 in. by 9h. A.M. on the 24th, increased to 29.75 in. by 9h. A.M. on the 24th, increased to 29.75 in. by 9h. A.M. on the 24th, increased to 29.75 in. by 9h. A.M. on the 24th, increased to 29.75 in. by 9h. A.M. on the 24th, increased to 29.75 in. by 9h. A.M. on the 24th, increased to 29.75 in. by 9h. A.M. on the 24th, increased to 29.75 in. by 9h. A.M. on the 24th, increased to 29.75 in. by 8h. A.M. on the 34th, increased to 29.75 in. by 9h. A.M. on the 24th, increased to 29.75 in. by 8h. A.M. on the 34th, increased to 29.75 in. by 8h. A.M. on the 34th and 24th increased to 29.75 in. by 8h. A.M. on the 34th and 24th increased to 29.75 in. by 8h. A.M. on the 34th and 24th increased to 29.75 in. by 8h. A.M. on the 34th and 24th increased to 29.75 in. by 8h. A.M. on the 34th and 24th an Overeast. Rain fell heavily during the early morning hours, and occasional showers fell in the day. Kain fell heavily

Generally cloudy. Rain fell very heavily in the early morning hours, accompanied by thunder and lightning; and rain also fell after 11. P. R.

Overcast till 8h. P.M., variable afterwards. throughout the atternoon and also at night.

was

Positive, with weak tension, shown in the afternoon evening.

30

No electricity was shown.

50

FRIDAY

28

THURSDAY.

Genera.ly overcast. Rain fell frequently.

at

Weak positive was observed

26

MONDAY

WEDNESDAY

No electricity was shown.

Strong positive and negative, with sparks and galvanic currents shown during a shower of rein shortly before 1b. P.M., and weak thing was also observed at 3h. p.M.

LONDOR: Printed by GRORGE E. EYRRAND WILLIAM SPOTTISWOODE, Printers to the Queen's most Excellent Maissty. For Har Maissty's Skationery Office.

## WEEKLY RETURN

### BIRTHS AND DEATHS IN LONDON AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

WEEK ENDING SATURDAY, OCTOBER 7. Price 12 No. 40. 1871. Vol. XXXII.]

> General Register Office, Somerset House, 9th October 1871.

During the week ending Saturday the 7th instant, 4610 births and 3481 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 25 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the SEVENTEEN ENGLISH CITIES and Towns were as follow:-London 21 per 1000; Portsmouth 23, Norwich 32, Bristol 25, Wolverhampton 33, Birmingham 28, Leicester 28, Nottingham 29, Liverpool 30, Manchester 35, Salford 37, Bradford 22, Leeds 34, Sheffield 29, Hull 26, Sunderland 41, and Newcastle-upon-Tyne 33. The fatality from diarrhea in these towns last week showed a further considerable decrease upon that in recent weeks, resulting in 297 deaths against 916, 685, and 492 in the three previous weeks; in the corresponding week of 1870 they did not, however, exceed 123; the highest death-rate from this disease last week was shown in Manchester, Birmingham, Wolverhampton, Leeds, and Sunderland. The deaths from small-pox in these 17 towns, which had been 154 and 131 in the two previous weeks, were 142 last week; of these, 72 occurred in London, 17 in Newcastle-upon-Tyne, 13 in Manchester and Salford, 12 in Sunderland, 10 in Sheffield, 7 in Norwich, 4 in Liverpool, and 2 each in Bristol and Wolverhampton. The fatality from small-pox in Sunderland showed a marked decline last week, while it had increased in London, Manchester, Sheffield, Newcastle-upon-Tyne, and Norwich.

In Edinburgh the annual rate of mortality from all causes last week was 25 per

1000 persons living, in Glasgow 28 per 1000, and in Dublin 23.

In Paris 764 deaths were returned in the week ending 6th instant, and the annual death-rate was equal to 22 per 1000 of the estimated population. In Brussels 83 deaths occurred in the week ending 30th ultimo, and the annual deathrate was 23 per 1000. In Berlin during the week ending 5th instant, the 623 deaths included 116 from small-pox, 67 from infantile diarrhea, 8 from Asiatic cholera, and 29 from enteric fever, showing an annual rate from all causes of 36 per 1000. In Vienna the 319 deaths in the week ending 30th ultimo gave an annual rate of 27 per 1000. In Rome 142 deaths were registered in the week ending the 24th, and the annual death-rate was 33 per 1000.

The fatal prevalence of Asiatic cholera has all but disappeared from Kenigsberg. In the City of New York 520 deaths were registered in the week ending

16th ultimo, and the equivalent annual rate of mortality was 29 per 1000.

In Madras the 251 deaths in the week ending 25th August showed an annual

death-rate equal to 31 per 1000 of the population.

In London 2169 births and 1283 Deaths were registered last week. After making due allowance for increase of population, the births were 10, and the deaths 83, below the average numbers in the corresponding weeks of the last ten years.

The 1283 deaths in London last week included 72 from small-pox, 25 from measles, 38 from scarlet fever, 5 from diphtheria, 36 from whooping-cough, 32 from different forms of fever (of which 4 were certified as typhus, 21 as enteric or typhoid, and 7 as simple continued fever), and 80 from diarrhea; thus to the seven principal diseases of the zymotic class 288 deaths were referred last week, against 396 and 333 in the two preceding weeks. The fatal cases of diarrhea showed a further decline of 73 upon the numbers returned in recent weeks, while those of small-pox exceeded by 21 those in the previous week.

[40.] RR In the past three weeks the mean temperature has been almost continuously below the average. The deaths from diarrhoa have steadily declined from 487 in the week ending 26th August, to 80 last week; this, however, was more than double the number referred to the disease in the corresponding week of 1870. Of the 80 cases last week, 72 were of infants under 2 years of age. Only one death in the week was referred to cholera; that of the wife of a musician in Belgrave sub-district, certified as "cholera biliosa, 3 days."

The fatal cases of small-pox in London, which in the three previous weeks had been 57, 89, and 51, were last week 72, or 57 above the corrected average number in the corresponding week of the ten years 1861–70. In the four small-pox hospitals at Hampstead, Islington, Homerton, and Brixton, 32 deaths were recorded last week. The greatest fatality was shown in Islington, Bow, and Walworth.

To different forms of violence 38 deaths were referred last week; of these, 31 were the result of accident or negligence, including 18 from fractures and contusions, 4 from burns and scalds, 4 from drowning, 2 from suffocation, and 3 from poison. Of the deaths from fractures and contusions, 3 were caused by horses or vehicles in the streets. Six deaths were referred to suicide last week, of which 4 were effected by drowning; one case of infanticide was registered.

In the large Public Institutions of the Metropolis 213 deaths were recorded last week, or 17 per cent. of the total deaths; of these 89 occurred in Workhouses

and 120 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.39 in.; the highest reading was 29.72 in. on Thursday morning, and the lowest 29 17 in. on Tuesday morning. The mean temperature of the air was 51°.9, or 1°.4 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature on Friday was 56°1, and showed an excess of 3°2, but with this exception it was below the average on each day of the week; the coldest day was Wednesday, when the mean was only 49°·2, and the deficiency 4°·3. The highest day temperature in the shade was 64° 8 on Friday, and the lowest night temperature 41° 5 on Thursday; the entire range of temperature in the week was, therefore, 23°3. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 111° 4 on Sunday. The difference between the mean dew-point temperature and air temperature averaged 6°. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 53° · 7 last week. The mean degree of humidity of the air was 80, complete saturation being represented by 100. The general direction of the wind was S.W., and the horizontal movement of the air in the week averaged 12 miles per hour. Rain fell on four days of the week to the amount of 0.77 of an inch, of which '61 in. fell on Sunday, 1st instant.

The mean temperature of the week in the other large English towns furnishing returns ranged from 46°·6 in Newcastle-on-Tyne, to 52°·3 in Portsmouth; the lowest recorded night temperature was 32°·0 in Hull, and the highest day temperature in the shade 63°·2 in Portsmouth. Rain was measured last week in each of these towns; more than two inches again fell in Manchester and Liverpool, while the quantity in the other towns ranged from '44 of an inch in Hull to

1.04 in Bradford.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 11°·06, or 0°·78 below the mean of the corresponding week in 50 years. The highest day temperature in the shade was 18°·22, the lowest night temperature 5°·28, and the highest temperature in the sun 44°·11. The wind blew at the rate of 19 kilometres an hour, and the rain-fall measured 1·96 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 281,635 cubic metres, and at Barking 327,388 cubic metres, equiva-

lent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FORTIETH Week of Ten previous Years.

Total Births  Males . , Females .	1861 1818 923 895	1862 1687 832 855	1863 1935 1037 898	1864 1896 997 899	2058 1042 1016	1866 2031 1054 977	2057 1074 983	1868 1893 975 918	1869 2248 1149 1099	1870 2188 1068 1120	Weekly Average in 10 Years. 1981 · 1 1015 · 1 966 · 0	2169 1069 -1100
Total Deaths Males Females .	1147	1229	1274	1263	1193	1344	1182	1229	1367	1279	1250·7	1283
	603	623	651	637	592	669	627	649	710	693	645·4	651
	544	606	623	626	601	675	555	580	657	586	605·3	632

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

			,										
	July 15.	July 22.	July 29.	Aug. 5.	Aug.	Aug. 19.	Aug.	Sept. 2.	Sept.	Sept.	Sept.	Sept.	Oct.
TOTAL Deaths	1259	1281	1420	1382	1568	1715	1682	1485	1422	1422	1411	1390	1283
Deaths under 5 years of age - Deaths 5-20	507 127	578 97	739 104	706 106	825 125	960 107	967 100	824 86	767 94	717 112	686 97	590 107	539 121
Deaths 20—40 Deaths 60—80	202 182 197	200 212 164	203 159 177	177 188 165	192 193 193	187 204 217	194 197 180	178 184 178	189 161 160	178 223 157	201 203 181	206 245 202	178 212 183
Deaths at 80 years & upwards	44	30	38	40	40	40	44	35	51	35	43	40	48
Deaths from Small-pox Measles Scarlet Fever -	133	135 17 24	122 18 19	87 18 24	96 28 30	80	82	78 19 24	81 21	57	89 23	51 18	72 25
", Diphtheria - Whooping-cough	40 9 23	1 28	8 22	5 . 25	5 41	21 4 30	24 6 25	9 32	26 3 26	32 8 32	27 7 24	36 6 30	38 5 36
", Typhus fever - ", Enteric (or Ty-) phoid) fever -	10	5	9	6 10	6 . 13	19	11	7 15	15	25	12	23	21
,, ,, SimpleContafever ,, , Diarrhora Simple Cholera -	6 64 4	10 110 9	7 201 17	225 18	7 299 15	425 40	7 487 28	353 20	11 293 24	11 268 15	6 205 2	8 153 7	80 1
, , , Bronchitis	148	144 59	149 48	152 68	147 51	138 53	145 53	164 59	153 47	146 58	139	166	143 84
Pneumonia - Heart Disease -	37 48	40 56	52 49	40 65	34 62	34 67	30 60	37. 61	38 49	39 62	37 54	39 71	56 60
Mean Temperature of the Air Mean Temperature of the)	61.7	65.5	60.4	60.3	68.3	67.1	63.0	64.0	€0.5	62.6	53.6	50°·2	51.9
Water of the Thames -} Humidity of the Air	63 · 2	65.6	65·6 75	63.9	66.4	69.6	70.5	64.5	64·6 78	63.4	60.1	56.2	53.7
Rain-fall in inches	1.51		0.66	0.23	0.00	0.69	0.09	0.02	0.66	0.00	0.10	3.34	0.77

<sup>\*</sup> The return for the sub-district of Stamford-hill was not received while the tables were under preparation. An average of 2, derived from the numbers in the six previous weeks, has been added without distinction of ages.

### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S. .—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Secles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 7th day of October 1871, in the following large Towns.

CITIES	Area	Population estimated	Persons	Births registered	DEATHS registered		TURE OF	التنتنين المساحات	TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALL.
BOROUGHS.  (Municipal Boundaries for all except London.)	in Acres.	to the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 7th Oct. 1871.	during the Week ending 7th Oct. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Centi- metres
Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	4610	3481	64.8	32.0	48.7	9.30	1.04	2.64
LONDON	77,997	3,263,872	41.8	2169	1283	64.8	41.5	51.9	11.06	0.77	1.96
PORTSMOUTH	9,513	113,450	11.9	79	50.	63.2	39.2	52.3	11.28	0.99	2.51
Norwich	7,472	80,533	10.8	45	49	60.0	36.0	49.7	9.83	0.89	2.26
BRISTOL	4,688	183,298	39.1	120	88	aproce	-			-	-
WOLVERHAMPTON -	3,387	68,476	20.2	42	43	59°8	37.5	48*8	9.33	0.89	2°26
BIRMINGHAM	7,831	344,980	44.1	239	182	59.3	40.0	49.9	9*94	0.89	2.26
LEICESTER	3,200	95,882	30.0	72	. 52	60°2	38.2	49.1	9.50	0.47	1.19
NOTTINGHAM	1,996	86,929	43°6	35 _	. 49	61.4	39.2	48.6	9.22	0.89	2.26
LIVERPOOL	5,108	494,649	96°8	289	284r	59.1	41.4	50.1	10.06	2.21	5.61
MANCHESTER	4,486	356,099	79.4	229	238	59.0	41.0	49.6	9.78	2.53	5.66
SALFORD	5,172	125,422	34.3	98	88	59.5	38.0	48.4	9.11	2.04	5.18
BRADFORD	6,590	146,987	22.3	103	61	57.4	41.2	48.8	9.33	1.04	2.64
LEEDS	21,572	260,657	12.1	100	169		-	-	-	-	-
SHEFFIELD	22,830	241,507	10:6	171	134	58.0	38.0	48.1	8.94	0.77	1.96
HULL	3,562	122,266	34.3	. 87	62	58.0	32.0	47.2	8.44	0.44	1.12
SUNDERLAND	3,306	98,797	29*9	71	78						-
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	75	82	55.0	42.0	46.6	8.11	0.99	2.21
EDINBURGH	4,427	201,728	45.6	126	95	52.7	32.0	45.3	7:39	0.60	1.52
GLASGOW	5,063	479,227	94.7	885	260	54.3	31.4	46'1	7.83	0.74	1.88
DUBLIN	9,745	310,565	31.9	125	134	60.0	33.5	48.1	8.94	0.77	1.96

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by adding 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs showed a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

TABLE 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Week ending Saturday the 7th day of October 1871.

	ANNUAL RATE				Th	e DEAT	THS reg	istered	in the	Week i	nclude			1
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhes.	Violence.	Inquest Cases.	In Public Institutions.
Total of 17 Towns -	25	2992	839	494	142	44	101	12	72	116	297	87	161	376
LONDON	21	1283	298	231	72	25	38	5	36	32	80	38	71	213
PORTSMOUTH	23	50	14	10	1	1	-	-	3	3	7	1	2	8
NORWICH	32	49	17	11	7	940	1	3	_	2	4	1	3	3
BRISTOL	25	. 88	23	14	2	3	6	-1	1	2	2	4	7	12
WOLVERHAMPTON -	33	43	14	8	2	1	3	-	-1	-	7	2	2	3
BIRMINGHAM	28	182	58	22	-	5	5	3	5	1	34	6	16	12
LEICESTER	28	52	16	13		. 1	-		-	.1	7	1	2	8
NOTTINGHAM	29	49	10	19	→ ± ±	1	-	-	-	5	7	3	8.	5
LIVERPOOL	30	284	98	53	4	2	13		4	22	32	12	19	39
MANCHESTER	85	238	77	31	8	1	5 .	_	4	13	36	6	13	32
SALFORD	37	88	- 31	8	5	-	2	_	8	4	10	1	2	2
BRADFORD	22	61	24	6			3	<b>=</b>	1	3	7	-	1	1
LEEDS -	34	169	64	23	1	-	6	_	3	12	24	6	7	14
SHEFFIELD	29	134	39	18	10	-	7	_	_	7	16	2	7	7
HULL -	26	62	18	4	1	3	2	_	2	4	6	2	2	5
SUNDERLAND	41	- 78	19	7	12	-	9	049	2	5	9	2	2	6
NEWCASTLE-ON-TYNE -	33	82	19	16	17	1	1	-	3		9	-	2	10
DUBLIN	23	134	23	32	5	-	4	1	1	3	.12	4	7	30

TABLE 5 .- DEATHS in LONDON Registered in the FORTIETH Week of the Year 1871.

TABLE 5.	—DEAT	THS in	ı L	OND	ON	Re	gist	ered	in the Fortieth Week	c of the	Yea	r 1	871	•			
	e 1-70.	Sa	In t	he W	ctob	endi	ng 1871.			le k 1-70.	Sa	In t	the V	Veek Octob	endi er 7,	ng 1871	
	of the Week irs 1861-70.		Deat	ths of	Per Age		of			s of th Weel		Dea	ths o	f Per	sons	of	
CAUSES OF DEATH.	Averages of Fortieth We	ALL AGES.	Un 2	der	r 40.	. 60.	r 80.	and	CAUSES OF DEATH.	Averages of the Fortieth Week the 10 years 1861-70.	ALL	Un		. 40.	r 60°.	r 80.	and
	A. Fe	Mean			under	under	under	Vears supwards.		A Figure 1	AGES. Mean	2		under	nnde	and under 80.	0 Years a upwards.
Mean Temperature -	54.6	Tem. 51.9	0-5.	5-20.	20 and	40 and	60 and	80 Yeu	Mean Temperature -	54.6	Tem. 51.9	0-5.	5-20.	20 and	40 and under	60 and	80 Ye upw
ALL CAUSES	1250.7	1283†	539	121	178	212	183	48	9. Stricture of Intestines -	*8	1			I	1	-	-
SPECIFIED CAUSES	1242.5	1274	536	120	178	209	183	48	10. Fistula	6.2	5	3 -	-	1	1 - 4	- 1	-
ORDER 1.									13. Hepatitis – – – – – – – – – – – – – – – – – – –	3.2 3.7 15.0	6 2 18	1	-	1 -	10	7	- 1
Small-pox Measles Scarlet Fever (Scarlatina) Diphtheria	13.5 23.1 106.7	72 25 38	25 23 26	21 2 12	21	5 - -			16. Spleen Disease, &c ORDER 5.	-4		-	_	_	_	_	
. Quinsy	12:3 -5 14:1	5 -7	7	8 -			-	-	1. Nephritis – – – – 2. Ischuria – – – 3. Bright's Disease (Nephria)	9.7	2 - 8	Ē	1	2	2 - 8	- 2	-
. Whooping-cough	27'7 47'7	36 4 21	34	6	2	1 2 1	1 2		4. Diabetes	1.9 4 6 6.5	2 2 7		1	-	1	1 - 3	1 2
Simple continued Fever -) Erysipelas Puerperal Fever (Metria)	7.8 3.6	7 7 -	3 5 -	=	1 -	-	1 -	ī	7. Kidney Disease, &c ORDER 6. 1. Ovarian Dropsy	1.2	1		Ė	1			
Carbuncle	1.5	3	1	-	- 1	-	1	- - 1	2. Uterus Disease, &c ORDER 7.	3.8	6		1	-	5		-
Diarrhœa Simple Cholera	86.4 20.2	80 1 -	75	1 - 1	Ē	1 -	3 -		1. Synovitis (Arthritis) - 2. Joint Disease, &c	4.4	1 5	-	3	-	ī	1	-
Rheumatism Other Zymotic Diseases -	8.2	8 2	2	1	7		-		ORDER 8.  1. Phlegmon	2·4 ·6 ·7	2 4	ī	1	1	1	1	-
ORDER 2. Syphilis Stricture of Urethra -	9°1 1°4	7	7	-	1	-	-	-	3. Skin Disease, &c IV. DEVELOPMENTAL	7	2	2		-	-	_	-
. Hydrophobia		=	Ξ		=			-	DISEASES. Order 1.								
. Privation – – – . Want of Breast-milk – Purpura and Scurvy –	7.6 1.2	5 1 3	- 5 1	-	-	-	-		1. Premature Birth 2. Cyanosis 3. Spina Bifida	18.7	16 3 1	16 S 1	=	-	Ξ	-	-
holism b Intemperance -	2.6	3 -	Ξ	=	1	1	1	-	4. Other Malformations - 5. Teething	11.6	11	11	Ē		-	-	-
. Thrush	3.7	ў 1	5 -	ī		_	-	-	1. Paramenia 2. Childbirth (see Puerperal)	4.8	1 3	Ē	1	- 3	-	-	-
CONSTITUTIONAL DIS.									Fever) {     ORDER 3.  1. Old Age	38.4	38		I		_	14	24
. Gout	1:4 12:5 28:2	7 43 1	ī ī	=	7	8	3 17	2	ORDER 4.  1. Atrophy and Debility	59.2	74	71		1	1	1	
ORDER 2.	3.7	1		-	-	-	-	1	V. VIOLENT DEATHS, &c.						-	-	
Scrofula	10.1 20.6 151.2	11 31 143	6 27 9	3 17 2	1 59	50	- 8	-	ORDER 1. (ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	17.8					5		
III. LOCAL DISEASES.	26.3	28	25			-	-		2. Wounds	3.7	18 - 4 3	2	5 1 2	6 -	ī	2 -	-
ORDER 1. Cephalitis Apoplexy Paralysis	12·0 33·4	17 38	7	5	1 4	3 11	1 17	2 1	5. Drowning 6. Suffocation 7. Otherwise	6.6 5.8 2.4	4 2	1 2	1	2			=
. Insanity	22·9 1·3 ·8	21	Ξ	-	1 -	6 -	13		ORDER 3. (HOMICIDE.)								
Convulsions	5.6 43.4 15.3	41 20	38 2	ī -	2 1 8	2 1 7	- 3		1. Murder and Manslaughter	1.7	1	1	_		-	-	-
ORDER 2. Pericarditis Aneurism Heart Disease, &c	2°6 2°6	2 2	-	1	1	1 10	-	-	ORDER 4. (SUICIDE.)	.2							
ORDER 3.	F3.0	7		1	13	10	28	4	1. Wounds {Gunshot - Cut, Stab	1.0	1 1 4	1141		1	1 4	-	
Bronchitis Pleurisy Pneumonia	4.8 76.1 2.1 56.5	84 5 56	28 - 31	10	2 63 63 63	16 1 7 4 4	\$2 1 4	6	4. Hanging 5. Otherwise	1.2	- -	-	-	-	-	-	-
. Asthma	4.8 11.5	6 10	1	1	1 2	4	1	1	ORDER 5. (EXECUTION.)								
ORDER 4. Gastritis Enteritis Peritonitis	1.2	12 12	16	1 1	2 2	1	1 2	-	1. Hanging -							-	
Ascites - Ulceration of Intestines -	5°8 4°5 2°7 3°8 3°3 3°2	1 - 5	111			1 - 2	8		Violent Deaths (not classed) Sudden Deaths (Cause un-	1.6	-	-	-	-	-	-	-
Ileus – – – – Intussusception – –	3°3 3°2 •9	8 2 1	-	1 1 1	-	2 -	3 1 -	-	causes not specified or ill- defined	6.6	7	3	1	-	8	-	-
						-		·		1				- 17	-		

NOTE.—Where a person is "found drowned", the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence,"

<sup>†</sup> An average of 2 is added without distinction of ages. See note \*, page 337.

# 340 Population, Total Births and Deaths, and Deaths from some Zymotic and other Cause

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

															du	ring	the '	Wee	k end	ling
					during	during				The :	DEATE	ns reg	istere	d in t	he We	ek in	elude			
REGISTRARS SUB-DISTRICT				Enume- rated Popu- lation, 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
LONDON			•	3,251,804	2169	1283	298	231	72	25	38	5	36	.4	21	7	80	38	71	213
WEST DISTRICTS -	-	1 1	-	561,189 751,668	332 491	214 285	41 59	47 68	30	4	9	1	·8 8	1	2	2	5 12	8 11	6 26	41 63
CENTRAL DISTRICTS	-	-	-	333,887	191	133	19	21	1	1	2	2	2	ŀ	3	1	9	6	11	31
EAST DISTRICTS - SOUTH DISTRICTS -	-	-	-	638,928 966,132	470 685	258 393	71 108	30 65	12 25	9	8 12	1	9	2	6	3	21 33	2	8 20	32 46
WEST DISTRICTS.														-						
St. Mary Paddington WH St. John Paddington H Kensington Town WL Brompton H St. Peter Hammersmith		111111111111	14 111 1111111	\$8702 \$8082 91583 29651 6662 36030 23378 26419 23228 21339 18700 13020 58043	42 10 71 13 6 28 22 12 14 7 3	20 8 30 8 5 13 13 12 10 2 4 5	5 6 1 2 1 2 3 1 - 1 7	827 - 258 48 - 112		1 2	1 1 2	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 111 111111	HI	1	1 - 1 2	1 - 1 - 1 - 4	- 1	3 1 3 - 13
St. John Westminster HHI	H Www	- E	-	38470 27640	30 15	18 15	5	1 5	1,7	ĩ.			3 2	114	-	ī	-	1	1	18
St. Margaret Westminster St. James's Square Golden Square Berwick-street St. Anne Soho HH			11111	10453 12855 10279 17555	4 2 7 12	2 4 6 3	1	1 2 1 -	1		1111	1111	1111	1111	1 -		1111	1	ī	3 -
NORTH DISTRICTS.  All Souls Marylebone HH Cavendish Square – Rectory Marylebone WH St. Mary Marylebone H Christchurch Marylebone St. John Marylebone Hampstead WHH Regent's Park Pancras Tottenham-court wH Gray's Inn Lane		street to profess a finite		28574 15419 26387 21795 23310 28192 29360 29216 38522 18066 68108 9.881 115948 9.891 9.699 9.3037 30305	7	11 2 15 3 16 8 12 12 13 8 17 10 24 40 40 40 2 7 7 16	2 7 1 2 2 1 7 1 2 2 3	614-74-222256613-1236	9 -2 -1 -1 10 3	111111111111111111111111111111111111111	1 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1	111111111111111111111111111111111111111	1 21 11 11 11 11 11 11 11 11 11 11 11 11	111111111111111111111111111111111111111	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 1 4 1 1 1 1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8 61 - 9 - 4 5 9 7 15 -
St. George Bloomsbury St. Giles South WH St. Giles North St. Giles North Charing Cross WH St. Clement Danes H St. George-the-Martyr H St. Andrew East Holborn Saffron Hill St. James Clerkenwell Amwell Clerkenwell Goswell-street City-road WHHL Whitecross-street Finsbury St. Botolph East London Cripplegate St. Seplehre H St. Bride W Castle Baynard Castle Baynard	11111111			17843 19089 16197, 11328 9831 9876 10711 20521 3652 9051 18912 16878 13293 1620 12156 18291 13790 10732 1444 13839 4308 4308 4308 4744 4868	6 17 10 10 2 3 9 7 9 8 13 17 7 12 18 6 8 10 7 2 6 7	681 4318 462 9535 4754 772 423 12	1 2 2 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1	1				in ini iyanan jenini	111111111111111111111111111111111111111	1 - 1 - 2 - 1 - 1 - 2 - 1 - 1 - 2 - 1 - 1	2	1 5 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

<sup>\*,</sup>The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# opulation, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 841

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

Saturday, 7th October 1871.							-										
	_	during	during				The D	EATH	s regi	stered	in the	e Wee	k inel	ude			
registrars' sub-districts.	Enume- rated Popu- lation, 1871.	Total BIRTHS du the Week.	Total DEATHS du the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26941 24153 19257	6 14 27 24 14 11	3 8 2 7 13 8	1 2 2 1 -	1 111	1 -	1	1 2 2 1 1	Section.	11111		1	11111	11111	111111		12111
Heckney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42448 26574 21375	19 22 15 18	15 17 8 9	7 7 2 1	2 2 3	1 -	1.	1 -	1111	1 2 -	1111	ī	1.11.1	3 2 - 2	1111	11111	2 -
Artillery Whitechapel	6651 15844 15550 11404 7323 10381 9149	6 14 16 10 6 4 8	1 3 17 4 9 3 5	3 1 1 1	1 6 1 -	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	ranger 1	111111		I F F F I F.	111111	1.114.1.11	1111111	1	1.101.01.1
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	20 19 8	9 13 8	8 3 -	2	1 1 1	1	1 -	-	-	-	ĩ		1 -	1.1.1	1 2 1	- 3
Shadwell W Rateliff WH	11623 1/93·) 80925	6 9 20	- 6 10	1.4.		1	3	111	12	= 1	. :	111	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	111	-	ĩ
Mile End Old Town West Mile End Old Town East WwH -	38126 55020	28 38	16 24	7 -	3	3	- 1	1	1.1	2 4	-	ĩ	-	1	-	-	2
Bow WwHLt	67777 48500	52 41	29 16	11 8	3.	2	-	1	4 -	- 1	1	-	-	6	-	-	4 -
Christchurch Southwark W St. Saviour Southwark H - Kent-road Borough-road WH	14547 15667 20430 16694 18959 23673 48232 16786	7 10 13 11 13 17 45 11	6 9 9 10 12 24 4	1 6 6 6 6 4 8 3	1 - 3 -	11113	11011111	1 3	1111111	1	1111111	1	1	1 2 - 13	1 1 1 1 1		1 2 2 - 4 -
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	9 8 11 40 19	10 3 6 8 16 13	1 2 4 3	1 2 2	2	1122	1	111111	1	11111	11111	111111	1 - 2	1 - 1 2	1 2	9 - 1
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 35831 41284 81213 35431 12534	9 14 15 34 26 21 20 7	2 10 19 14 16 6 22 4	7 3 4 2	2 5 3 2 1	1 1 11 11 11	1111111	1 1 1 1 1	1111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Timini		1	31111	3 1111111111111111111111111111111111111	11117111	6
Clapham HL Battersea W	27348 53988 19797 9488 14479	22 40 17 4 8	7 19 6 2 2	2 4 2 -	2 3 1 1 1	2 -	1	2.	1111	11111	1	11113		1	111111	-	2 1 -
Dulwich – Camberwell WL+L+ – – – – – – – – – – – – – – – – – –	4941 31251 42159 33851	3 25 29 25	7 16 8	3 4 3	1 8 1	ī -	1111	1111	1 1 1 1	1111	1111	- - 1		1 2 -		1	2 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH Greenwich East	53696 6487 21098 19320	31 3 15 12	26 8 9 8	9 - 3 2	2 1 3 4	1	011	1	1111	1.11.1	- - 1	1 -		3 1 1 -	1,111	- - 1	- 4
Elthara – Lee Lee Lewisham Village <i>W</i> – – – Sydenham – – –	4528 16430 11508 19016	1 9 11 12	1 8 2 12	1 4	1 5 - 1	1.1.1.1		1111		1111	1111	- - 1	-		ī	1 - 2	-
Charlton H Woolwich Dockyard Wolwich Arsenal H	9503 17229 18319 13 28 11200	7 11 16 10 14	3 4 10 3 5	2 4 1 2	1 1 1	11111	31111	11111	11111		11111	1	ĩ	2 3 - 1	1	- 8 - 1	1111

The following are Outlying Workhouses (indicated in the Tables by w):

TABLE 7.—METEOROLOGICAL OBSERVATIONS taken at the ROXAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 7th October, 1871. Under the Superintendence of the Astronomer Royal.

daily values by the application of corrections deduced by James (Jaisher, F.R.S., from five years observations enthing 1845, December 31.—58e File. I Trans., part 1, 1845. The mean daily dear observations enthing 1845, December 31.—58e File. I Trans., part 1, 1845. The mean daily deap point and degree of humding are deduced from those mean daily values of the dry and wer buil beforemented relabels, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 91. A.M.; noon; 81. P.M.; and 91. P.M.; as well as the results deduced from the maximum and minimum thermometers, as defermined by the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Gaisher from the thermometrical observations taken at the Royal Observatory, Greenwich, in the 50 years ending 1863, December 31.

\*In reading the 17th column it will be borne in mind that + is read "higher," and "house," then the morane. The results of all the meteorological observations are to be understood as Henderson, R.B., C.B., COmmissioner of Metropolisan Police.

The reading of the harometer decreased from 30 visin, as the beginning of the week to 28 visin, by 9h. r.m. on the 18t of October, increased to 29 visin, by 9h. r.m. on the 18t increased to 29 visin, by 9h. r.m. on the 24t, decreased to 29 visin, by 9h. A.m. on the 34t, increased to 29 visin, by 9h. A.m. on the 7th; and was 29 visin, by 9h. A.m. on the 7th; and was 29 visin, by 9h. a.m. on the 7th; and was 29 visin, by the end of the week. .auozO of the Royal Society's flint glass standard barometer. The observations are taken at 9h. A.M.; onco; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry theorement, the they thermometer, to beserved at these times, are converted into mean applying to the civil day, or from midnight to midnight.

The temperature of the water of the Thannes is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpton" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the ::: 26 height of the eistern of the barometer is considered to be 159 feet above the mean of the sea. The readings of the barometer are considered to be coincident with those superintendence of the resident inspector on board the ship, by permission of Lieut.-Col. The results of all the meteorological observations are to be understood above the surface 00.0 00.0 00.0 ls 5 in. 19.0 0.01 0.11 Sum 0.77 Amount of of Air Movement 374 mns 1961 24 of 240bs. Pressure on square foot. 0.5 0.0 0.0 0.2 0.3 23 As deduced from Anemometers. Least. 0.0 0.0 0.0 0.0 lbs. 0.0 0.0 22 WIND. 10.5 Great-0.5 0.0 9.8 21 by W. WSW&SW. W. & WSW. NW. & S.byE. SELON WSW. SSW. General Direction. 20 N. % SW. WSW.& W. S. by E. & SSW. SSE. & SW 8 A.M. S. by 19 Degree of Hu-midity, Saturation being repre-sented by 100. 20 94 80 18 perature of the same day on an average of 50 years,\* perature of the day and mean temmean tem-3.5 0.4 than the average. 17 1 + DIFFERENCE 6.0 0.0 Between Dew Point ARRT. 3.4 16 Air Temperature. Pemperature and 6.4 12.4 8.2 15.0 5.0 11.8 7.6 15.2 6.8 11.0 11.5 4.2 11.6 est. 15 Fraquent showers of rain fell A very variable day. Cloudy A fine morning, with but few clouds. Generally overcast after 3h. P.M., and rain fell between 3h. and 4h. P.M. 0.9 6.3 1.7 Mean daily value. 14 amount Cloudy, but fine. A shower of rain fell about 1h. 30m. F.M., thinly at night. Hazy. Cloudless and very fine in early morning and at night. Can hazy during the day, and a slight fog was also prevalent. 51.8 52.0 the Thames at Greenwich, by self-registering Highest, Lowest. 52.0 8.19 52.1 In the Water of The 13 A little rain fell in the evening. Foggy in morning. A fine day, but very hazy. cloud increased towards night. SKY AND ATMOSPHERE. 56.0 54.5 54.6 55.5 55.4 54.8 12 Heavy rain fell during the early morning. Frequent heavy showers of rain. Frequent between 1h. and 3h. P.M. Fine at night. Minimum Thermo-41.7 45.0 38.4 Lowest on the 32.1 35.3 a self-11 READINGS OF THERMOMETERS. Generally overcast throughout. Highest in the sun, as shown by a self-regis-Thermo-meter with blackened, bulb in vacue, placed on the Grass. 93.7 98.0 77.5 96.2 86.4 10 .96 52.2 45.8 49.5 41.3 44.2 8.64 Mean 45.9 Cloudy, but fine. Dew Point. daily value. 50.4 6 52.5 49.2 52.0 51.9 52.1 Mean 56.1 daily value. 62.1 44.8 17.3 52.7 59.6 47.2 12.4 59.4 00 15.8 15.8 15.5 16.4 day. in 1 Drv. 47.3 58.5 42.7 44.9 49.0 Strong positive and negative, with sparks and galvanic currents between 2h, and 3h, P.M. Weak positive at other times. P.M., Positive, with weak tension occaat LOWest. 9 tension 64.8 8.29 61.3 Strong positive about 3h. Weak positive occasionally. est. ELECTRICITY. Weak positive at noon. Positive, with weak 29.236 No electricity shown. daily duced to 32 degr. Fahren heit). 28.997 29.154 29.646 29.391 494 (corand re-29. Greatest Dec. N. Last Qr. MOON. of ::: 9 9 No. of Columns. MONTH AND DAY 00 10 63 OCTOBER. 1871. WEDNESDAY THURSDAY MEANS DATE. THURSDAY . SATURDAY . SATURDAY I'UESDAY MONDAY SUNDAY TUESDAY MONDAY SUNDAR

# WEEKLY RETURN

#### BIRTHS AND DEATHS IN LONDO AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 41. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, OCTOBER 14. [Price 1d.

> General Register Office, Somerset House, 16th October 1871.

During the week ending Saturday the 14th instant, 4918 births and 3469 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 25 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the SEVENTEEN ENGLISH CITIES and Towns were as follow: -London 20 per 1000; Portsmouth 19, Norwich 20, Bristol 22, Wolverhampton 33, Birmingham 25, Leicester 27, Nottingham 28, Liverpool 31, Manchester 29, Salford 34, Bradford 23, Leeds 27, Sheffield 27, Hull 26, Sunderland 49, and Newcastle-upon-Tyne 37. The fatal cases of diarrhoca in these towns, which were 1213 in the week ending 26th August, have since steadily declined, and last week were but 200; this number, however, exceeded by 83 those so returned in the corresponding week of 1870. The deaths from small-pox in these seventeen towns, which had been 131 and 142 in the two previous weeks, further increased to 156 last week; of these, 61 occurred in London, 26 in Sunderland, 18 in Newcastle-upon-Tyne, 14 in Manchester and Salford, 12 in Wolverhampton, 9 in Sheffield, 7 in Norwich, 5 in Liverpool, and 2 in Birmingham. The fatal cases of small-pox showed a considerable increase last week in Wolverhampton and Sunderland; and in the latter town typhus is also fatally prevalent.

In Edinburgh the annual rate of mortality from all causes last week was 31 per 1000 persons living, in Glasgow 32 per 1000, and in Dublin 31. Small-pox shows

an increasing fatality in Dublin.

In Paris 690 deaths were returned in the week ending 13th instant, and the annual death-rate was equal to 20 per 1000 of the estimated population; but it is exceedingly probable that the population is now lower than that estimate (1,825,274 persons), in which case the death-rate is understated. In Brussels 84 deaths occurred in the week ending 7th, and the annual death-rate was 24 per 1000. In Berlin during the week ending 12th, 562 deaths were recorded, showing an annual rate of 32 per 1000; of the 562 deaths, 120 were referred to small-pox, 32 to enteric fever, and only one to Asiatic cholera; small-pox showed an increasing fatality. In Vienna the 336 deaths in the week ending 7th gave an annual rate of 28 per 1000. In Rome 141 deaths were registered in the week ending 1st, and the annual death-rate was 33 per 1000.

In the City of New York 503 deaths were registered in the week ending

23d ultimo, and the equivalent annual rate of mortality was 28 per 1000.

In London 2254 Births and 1275 Deaths were registered last week. After making due allowance for increase of population, the births exceeded by 58, while the deaths were 139 below, the average numbers in the corresponding week of the

The 1275 deaths in London last week included 61 from small-pox, 34 from measles, 29 from scarlet fever, 9 from diphtheria, 27 from whooping-cough, 42 from different forms of fever (of which 6 were certified as typhus, 24 as enteric or typhoid, and 12 as simple continued fever), and 69 from diarrhea; thus to the seven principal diseases of the zymotic class 271 deaths were referred last week, against 333 and 288 in the two preceding weeks. The deaths from smallpox, diarrhea, scarlet fever, and whooping-cough showed a decline upon the numbers in the previous week, while those from measles and different forms of fever were more numerous. Measles showed an increased fatality in Westminster and Islington; and the deaths from scarlet fever were excessive in Marylebone, Islington, and Kentish Town. The 69 deaths referred to diarrhea in London last week, of which 58 were of infants under two years of age, although showing a further decline upon the numbers returned from this disease in the seven previous

[41.]

weeks, were nearly double the number in the corresponding week of 1870, and exceeded by 18 those in the 41st week of the ten years 1861-70, corrected for increase of population. The death of an infant was referred to "infantile cholera,

3 days;" and one of a child aged 8 years to choleraic diarrheea.

The fatal cases of small-pox in London, which had been 89, 51, and 72 in the three preceding weeks, were 61 last week, and 46 in excess of the corrected average number in the corresponding week of the ten years 1861–70. In the three small-pox hospitals at Hampstead, Homerton, and Brixton, 20 deaths were recorded last week. The disease appears to be still somewhat fatally prevalent in Bermondsey, Bow, Poplar, and Walworth.

The recent unseasonably cold weather appears to have exercised a considerable influence upon the mortality from bronchitis; the deaths referred to this disease, which in the seven weeks ending 23d September had averaged but 55, rose last

week to 113, and exceeded by 19 the corrected average weekly number.

To different forms of violence 50 deaths were referred last week; of these, 40 were the result of accident or negligence, including 22 from fractures and contusions, 5 from burns and scalds, 6 from drowning, 5 from suffocation, and one from poison. Of the deaths from fractures and contusions, 5 were caused by horses or vehicles in the streets, raising the number of deaths from street accidents in London since the beginning of the year to 162, against 143 and 159 in the corresponding period of 1869 and 1870. Four cases of suicide, and two each of manslaughter and infanticide, were registered during the week.

In the large Public Institutions of the Metropolis 216 deaths were recorded last week, or 17 per cent. of the total deaths; of these 105 occurred in Workhouses

and 108 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 30.11 in.; the highest reading was 30.33 in. on Friday morning, and the lowest 29.59 in. at the beginning of the week. The mean temperature of the air was 45°.5, or 5°.9 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from thermometrical observations taken at the Royal Observatory. The mean temperature was considerably below the average throughout the week; the deficiency was so great as 6° 9 on Monday, Tuesday, and Thursday, while on Saturday the mean had increased to 47°.5, and the deficiency was not more than 3°.1. The highest day temperature in the shade was 59° · 2 on Friday; the lowest night temperature 31° · 2 on Friday; the entire range of temperature in the week was, therefore, 28°. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 101° · 1 on Tuesday. The difference between the mean dew-point temperature and air temperature averaged 5° 7. mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 52°.7 last week. The mean degree of humidity of the air was 80, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air in the week averaged 5 miles per hour. No rain was measured during the week.

The mean temperature of the week in the other large English towns furnishing returns ranged from 42°·5 in Hull, to 49°·1 in Portsmouth; the lowest recorded night temperature was 27° in Hull, and the highest day temperature in the shade 61°·3 in Salford. About a quarter of an inch of rain fell last week in Wolverhampton, Liverpool, Manchester, and Sheffield, while but little was measured

in any of the other towns furnishing returns.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 7°50, or 3°28 below the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 15°11, the lowest night temperature -0°45, and the highest temperature in the sun 38°39. The wind blew at the rate of 8 kilometres an hour.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 215,448 cubic metres, and at Barking 240,176 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FORTY-FIRST Week of Ten previous Years.

Total Births  Males  Females .	1861 1683 865 818	1862 1757 901 856	1863 1873 962 911	2072 1020 1052	1865 1987 1007 980	1866 2073 1052 1021	1867  2028 1023 1005	1868 2325 1198 1127	2053 1009 1044	1870 2116 1102 1014	Weekly Average in 10 Years. 1996.7 1013.9 982.8	1871 2254 1097 1157
Total Deaths  Males Females	1113	1121	1258	1355	1261	1353	1233	1438	1305	1416	1285·3	1275
	576	595	624	708	658	661	639	701	676	735	657·3	618
	537	526	634	647	603	692	594	737	629	681	628·0	657

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	July 22.	July 29.	Aug.	Aug.	Aug.	Aug. 26.	Sept.	Sept.	Sept. 16.	Sept. 23.	Sept.	Oct.	Oct. 14.
TOTAL Deaths	1281	1420	1382	1568	1715	1682	1485	1422	1422	1411	1390	1283	1275
Deaths under 5 years of age - Deaths 5-20	578 97	739 104	706 106	825 125	960 107	967 100	824 86	767 94	717 112	686 97	590 107	539 121	497 103
Deaths 20—40 Deaths 40—60 Deaths 60—80	200 212 164	203 159 177	177 188 165	192 193 193	187 204 217	194 197 180	178 184 178	189 161 160	178 223 157	201 203 181	206 245 202	178 212 183	202 203 221
Deaths at 80 years & upwards	30	38	40	40	40	44	35	51	35	43	40	48	49
Deaths from Smallpox Measles Scarlet Fever -	135 17 24	122 18 19	87 18 24	96 28 30	80 19 21	82 20 24	78 19 24	81 21 26	57 16 32	89 23 27	51 18 36	72 25 38	61 34 29
" Diphtheria - " Whooping-cough " Typhus fever -	28 5	8 22 9	5 25 6	5 41 6	30 7	6 25 4	9 32 7	3 26 8	8 32 11	7 24 3	6 30 8	36 4	9 27 6
", Enteric (or Ty-) phoid) fever - ", Simple Conta fever	9	9 7	10 4	13 7	19 5	11	15 4	15	25 11	12	23 <b>8</b>	21 7	24 12
" " Diarrhœa " Simple Cholera -	110	201 17	225 18	299 15	425 40	497 28	353 20	293 24	268 15	205 2	158 7	80	69 2
, Phthisis Bronchitis Pneumonia - Heart Disease -	144 59 40 56	149 48 52 49	152 68 40 65	147 51 34 62	138 53 34 67	145 53 30 60	164 59 37 61	153 47 38 49	146 58 39 62	139 62 37 54	166 83 39 71	143 84 56 60	140 113 62 73
Mean Temperature of the Air	65.5	60.4	60.3	68.3	67.1	63.0	64.0	60.5	62.6	53°6	50°2	51.9	45.5
Mean Temperature of the Water of the Thames -	65.6	65.6	63.9	66.4	69.6	70.5	64.5	64.6	63.4	60.1	56.2	53.7	52.7
Humidity of the Air	75	75	70	68	69	76	71	78	71	70	88	80	80
Rain-fall in inches	0.05	0.66	0.23	0.00	0.69	0.09	0.02	0.66	0.00	0.10	3:34	0.77	0.00

### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.



Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 14th day of October 1871, in the following large Towns.

		14th day o	1 Octor	er 10/1, 1	I the lone	11118 1111	80 20				
CITIES	Area	POPULATION	Persons	Births registered	DEATHS registered		ATURE OF		THE AIR.	RAIN	FALL
BOROUGHS.  (Municipal Boundaries for all except LONDON.)	in Acres.	estimated to the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 14th Oct. 1871.	during the Week ending 14th Oct. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Cen met
Total of 20 Towns in the UNITED KINGDOM	213,281	7,204,001	33.8	4918	3469	66.7	27.0	45.2	7.33	0.11	0.8
	77,997	3,263,872	41.8	2254	1275	59.2	31°2	45.2	7.50	0.00	0.0
LONDON	9,513	113,450	11.9	83	42	59.2	38*0	49.1	9.20	0.07	0.:
PORTSMOUTH	7,472	80,533	10.8	54	31	55'8	31.0	43*4	6.33	0.12	0.3
NORWICH	4,688	183,298	39.1	119	79	"	-			-	-
WOLVERHAMPTON -	3,387	68,476	20.2	48	43	57.3	32.1	45.6	7.55	0.54	0.
		344,980	44.1	242	167	58*6	83.0	45.8	7.66	0.00	0.
BIRMINGHAM	7,831	95,882	30.0	70	50	58.0	29.7	43.8	6.55	0.00	0.
LEICESTER	3,200	86,929	43.6	65	46	59.4	30.1	44.7	7.06	0.05	0.
NOTTINGHAM	1,996	494,649	96.8	364	294	58.7	38.2	46.6	8.11	0.50	0.
LIVERPOOL -	5,108 4,486	356,099	79.4	240	201			_	-		-
MANCHESTER	4,400				01	61.3	30.2	44.9	7.17	0.34	0.
SALFORD - * -	5,172	125,422	34.3	110	81 64	57.0	34.6	43.9	6.61	0.02	0.
BRADFORD · ·	6,590	146,987	22.3	75	134	57.0	32.0	43.8	6.22	0.01	0.
LEEDS	21,572	260,657	12.1	159 190	125	59.0	30.2	44.8	7.11	0.35	0.
SHEFFIELD	22,830	241,507		83	61	55.0	27.0	42.5	5.84	0.11	0.
Hull	3,562	122,266	34*3			1 00 0					1.
SUNDERLAND	3,306	98,797	29.9	82	92	-	-	1000	0.00	0.00	0.
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	. 95	90	56.0	33.0	42.9	6.06	0.50	0.
EDINBURGH	4,427	201,728	45°6	136	118	59.7	28.0	43.4	6.33	0 20	1
GLASGOW	5,063	479,227	94.7	309	293	-		F7.00	11.06	0.07	0.
DUBLIN	9,745	310,565	31.9	140	183	66.7	30.0	51.9	11.00	0 07	1
									1 22 - 8 42		

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by add 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs shown a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Wending Saturday the 14th day of October 1871.

	ANNUAL		1 1		The	e DEATE	ns regi	stered i	n the Y	Veek in	clude		
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.
Total of 17 Towns -	24	2875	732	536	156	64	74	19	58	140	200	.94	152
TONDON	20	1275	262	270	61	34	29	9	27	42	69	50	78
LONDON	19	42	10	13	1	2	1	-	1	2	4		-
NORWICH -	20	31	7	8	7	-		-	-/	3	1	-	1
BRISTOL -	20	79	19	20	-	3	3	1	-	-3	2	3	4
BRISTOL					10	1				2	4	_	
WOLVERHAMPTON -	, 00	43	13	7	12	1	1	1	2	7	19	5	9
BIRMINGHAM	1	167	49	20	2	3	2		2	3	6		6.4
LEICESTER		50	17	7	-	-		1	_	3	7	_	
NOTTINGHAM	28	46	9	9	1	-		1					4
LIVERPOOL	31	294	88	58	7 5.	1: 7	17	3	8	18	21	14	18:
MANCHESTER -	-	201	53	34	8		5	1 - /	5	8	22	8	18
SALFORD		81	23	11	6	2	-	- '	1	4	6	2	3
BRADFORD	1	64	20	10	- 1	- /	2	1	3	3	6	-	1 7
	1	704	W1	14	_	1	_	_	2	12	16	. 5	7,
LEEDS		134	51	17	9	6	9	-	6	5	9	2	4
SHEFFIELD	1 ~*	125	36	1		0	-	1	1	3	4	-	-)
HULL	1 20	61	20	12	26	1	8	1 1	1	18	2	3	2)
SUNDERLAND	20	92	29	15	18	4	1	2	i	4	2	2	2
NEWCASTLE-ON-TYNE -	37	90	26	15	10	.3					4		
DUBLIN	31	183	83	44	7	-	3		6	10	13	4	3

TABLE 5 .- DEATHS in LONDON Registered in the FORTY-NINTH Week of the Year 1871.

TABLE 5.—	JEATHS	3 111 3	LON	DOM	ı K	egis	tere	Q 11	the Forty-Ninth Wee	K Of th	ie xe	ar .	187.	1.			
	ek 11–70.	Sa	In th	he W	eek	endir er 14	ng , 1871			ek ek 1-70.	Sat	In th	ie W	eek	endir er 14,	ng 1871	
	Averages of the Forty-first Week	سمار	Deat	ths of		sons				of the it Week rs 1861-70.		Deat	hs of		sons	_	
CAUSES OF DEATH.	y-firs	ALL	Ur	nder	1	69	80.	p	CAUSES OF DEATH.	Averages of Forty-first V	ALL	Une		1	90,	80.	e
	Ave Fort	AGES.	2	20.	under 40	under	L	s and		Ave Fort	AGES.	20		under 40	under (	er.	s and
	==	Mean Tem.		20.	a pus	and u	and	Upwards.		<u>.s</u> _	Mean Tem.	5.	20.	20 and u	and u	and un	Years upwards.
Mean Temperature -	52.3	45°5	0-0	5-20.	20 8	40 8	9 09	80 n	Mean Temperature -	52.3	45.5	7-0	5-20,	20 8	40 a	60 a	86 u
ALL CAUSES	1285.3	1275	497	103	202	203	221	49	9. Stricture of Intestines -	:6	-	-	-	-	-	-	-
SPECIFIED CAUSES	1278 2	1273	497	101	202	203	221	49	11. Stomach Disease, &c	6.6 .1	6 3	2 -		1	2	1	-
I. ZYMOTIC DISEASES. ORDER 1.					1.5				13. Hepatitis	18.1	2 26	E	1	1	1 2 14	9	1
1. Small-pox	13·2 26·0 105·4	61 84 29	19 31 20	17 3 7	17 2 1	6	2 -		16. Spleen Disease, &c ORDER 5.	*5		-	-	-	-	-	-
4. Diphtheria	10.5	9 - 8	6 - 4	7 2 -	1 -	-	-	-	1. Nephritis	1:7	2 - 12	1 -	-	1 4	-	-	-
7. Whooping cough)	29.8	27	26	1 1 8	2	- 4	1	-	3. Bright's Disease (Nephria) 4. Diabetes	1.8	3 -	-	1 -	-	6	1	-
- Entericor Typhoid Fever - Simple continued Fever - 9. Erysipelas	7.6	24 12 7 2	4 2	8 5	2 8 2 1 2	1 3	2	-	6. Cystitis 7. Kidney Disease, &c	8.1	11	=	-	=	2	7	2
10. Puerperat Fever (Metria) 11. Carbuncle 12. Influenza	5.2	2 -		-	2 -	-		-	ORDER 6.  1. Ovarian Dropsy  2. Uterus Disease, &c	*6 3.4	- 1	-	-	-	ĩ	-	-
13. Dysentery	1°9 46°7	69	61	1	-	ī	2	1 4	ORDER 7.					-	-	-	
15. Simple Cholera 16. Ague 17. Remittent Fever	22.2	2 -	1 -	-	-	-	-	-	1. Synovitis (Arthritis) - 2. Joint Disease, &c	3.4	3		1	ī	ī	ī	-
18. Rheumatism 19. Other Zymotic Diseases -	8.0	10	1	6 -	2 -	ī	1	-	ORDER 8.  1. Phlegmon	1.7	1 2	-	-	-	1	-	
ORDER 2.  1. Syphilis  2. Stricture of Urethra -	8.8	8 4	3	1 -	3	1	3	-	3. Skin Disease, &c	2.2	-			-	-	_	E
3 Hydrophobia 4. Glanders	-	-	-	-	-	-	-	-	IV. DEVELOPMENTAL DISEASES.								
ORDER 3. 1. Privation	9.0	- 6	- 6	=	-	-	-	-	ORDER 1.  1. Premature Birth	20.0	19	19	-	-	-	-	H
3. Purpura and Scurvy –  4. Alco- \( \alpha \) Del. Tremens –  holism \( b \) Intemperance –	1.9	2 -	6 1 -	-	1 -	-	-		2. Cyanosis	2:3 1:0	1 1 7	1 1 7	_	-	-	-	H
ORDER 4.	1.2	-	3	-	-	-	-		5. Teething ORDER 2.	10.7	7	7		_	-	_	i
2. Worms, &c	8.7	3 2	-	ī	ī	-	=		1. Paramenia 2. Childbirth (see Puer-)	6.3	6	-	-	6	-	-	1
ORDER 1.									peral Fever) { ORDER 3.								I
1. Gout	1.2.9 28.9	16 32	2	ī	4 2	4 19	2 4 11	ì	1. Old Age ORDER 4.	41.2	48	-	_	-	-	26	22
4. Cancrum Oris (Noma) - 5. Mortification	4.2	2	-	=		-	î	ī	1. Atrophy and Debility -	66.4	69	59		-	3	7	
ORDER 2.  1. Scrofula  2. Tabes Mesenterica	11.5	6 34	4 33	-	1	-	1	-	V. VIOLENT DEATHS, &c. ORDER 1.								
3. Phthisis 4. Hydrocephalus	145·5 26·1	140 23	6 20		75	35	14	-	(ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions	16:4	22	_	5	5	8	4	
III. LOCAL DISEASES. ORDER 1.									2. Wounds	3·4 ·7	5	4			1 1 1	-	-
1. Cephalitis	12°1 29°6	14 28	8 2	1 1	1 4 2	1 12	6	3 2	5. Drowning	7·2 5·9	6 5 1	5	1	4	1 -	1	-
3. Paralysis	22·1 1·7 ·1	28	-	1 -	2 -	6 -	17	2 -	7. Otherwise ORDER 3.	2.7	-					-	
6. Epilepsy 7. Convulsions	6·2 45·5	4 34	32 1	1 2 2	2 - 1	- - 1	1 -3	-	(Homicide.) 1. Murder and Manslaughter	1.5	4	2	_	1	_	1	_
8. Brain Disease, &c ORDER 2. 1. Pericarditis	2:0	8	1	-	-	-	1		ORDER 4.								
2. Aneurism 8. Heart Disease, &c	3·3 54·3	73	1	5	16	24	26	-	(SUICIDE.)  1. Wounds { Gunshot - Cut, Stab -	1.2	-	-	-	-	-	-	-
ORDER 3.  1. Laryngitis  2 Bronchitis	5·0 85·2	7 113	5 42	1 2	1	18		-	2. Poison 3 Drowning	1.3	1 - 3	-	-	- 3	-	1	B
3. Pleurisy	64·1	62	40	-	8	5	41 2 7 2	5 - 2	5. Otherwise	1.4	-	-		-	-	-	-
5. Asthma ORDER 4.	5.5	3	2	=	8 2 1	6	2	1	ORDER 5. (EXECUTION)								
1. Gastritis	3·1 5·6	3 5	- 1	-	1	2	1 2	-	1. Hanging	-1	-	-	-	-	-	-	-
3. Peritonitis 4. Ascites 5. Ulceration of Intestines -	5.2 2.4 2.6	3 1	-	-	2 -	1 1 1	1 2 1		Violent Deaths (not classed) Sudden Deaths (Cause un-)	-3	2	-		_	1	1	-
5. Ulceration of Intestines - 6. Hernia 7. Ileus 8. Intussusception	3.0	1	-	-	-	-	-	1	ascertained) } Causes not specified or ill-	2.4	2	-	2	-	-	_	2
o. Incussusception	1.3	1				-	1	-	defined }						-		

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

TABLE 6. LONDON .- POPULATION, BIRTHS, DEATHS from ALL CAUSES, and from SMALL-POX, MEASLES, SCARLET

		,				_						du	ring	the	w ee	k en	aing
		during	during				The	DEAT	нз ге	gistere	ed in	the V	7eek i	nelude	е		
REGISTRARS' SUB-DISTRICTS.	Enumerated Population. 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhes.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON -	 3,251,804	2254	1275	262	270	61	34	29	9	27	6	24	12	69	50	78	216
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	561,189 751,668 333,887 638,928 966,132	325 494 221 479 735	182 282 143 277 391	87 45 22 63 95	55 59 33 48 75	3 17 3 14 24	6 6 4 6 12	3 13 1 5 7	1 7 - 1	5 4 2 7 9	- 2 2 2	2 5 2 9 6	1 2 2 4 3	7 16 11 18 17	5 11 9 13 12	10 22 10 23 13	32 57 22 45 60
WEST DISTRICTS.  St. Mary Paddington WH - Kensington Town WL - Brompton H - St. Peter Hammersmith - St. Paul Hammersmith H - Fulham WLLLL - Chelsea North-west HWw - Chelsea North-west L - Hanover Square - Hanover Square - Belgrave HH - St. John Westminster WI St. John Westminster WI St. James's Square - Golden Square W - Berwick-street - St. Anne Soho HH	 58702 38082 91583 28651 6662 36430 23378 26419 22278 21389 18700 18920 58913 88470 27640 10453 12855 10279 17555	36 18 54 7 3 28 20 20 13 14 8 5 35 22 13 5 8 6	17 7 25 10 1 12 7 11 10 6 4 2 15 13 22 4 6 6 10	4253 22 5 1 1244 11 -	5392142 3663 11441 - 3 - 8	211111111111111111111111111111111111111	1111111111148111	1	111111111111111111111111111111111111111	1 1 1 1 1 2 2		1		111111113111	1122	21211 2 1 1 2 1 1 1 2 1 1 1	3 2 1 1 - 1 - 2 4 - 11 - 2 - 11
North Districts.  All Souls Marylebone HH — Cavendish Square — — Rectory Marylebone WH — St. Mary Marylebone H — Christchurch Marylebone — St. John Marylebone — Hampstead WHH — Regent's Park Paneras — Tottenham—court wH — Gray's Inn Lane H — Somers Town — — Camden Town W — Kentish Town W — Islington West* WHHH — Islington East Www — Stoke Newington L — Stamford Hill — West Hackney — Hackney WHL — South Hackney L —	28574 15419 26587 21795 33892 33110 32271 38192 2936 35562 18065 68198 97801 115948 9810 6599 28076 50087	11 4 23 24 30 13 13 13 12 21 22 12 42 69 75 8 5 24 30 25	14 4 19 6 11 8 12 14 12 7 13 18 27 42 37 1 3 14 18 27	3 2 2 4 3 1 1 1 2 3 10	4 1 10 -2 2 2 4 1 -3 7 4 3 9 -1 3 3	1 - 1 - 1 - 2 6 1	111111111111111111111111111111111111111	113331		22		4	1	1 1 1 4 3 - 1 3	1	11 2 - 10 - 6	5 -9 4 -4 1 -9 6 5 6 8
CENTRAL DISTRICTS.  St. George Bloomsbury - St. Giles South WH - St. Giles North - Long Acre - Charing Cross WH - St. Glement Danes H - St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell W - Amwell Clerkenwell W - Amwell Clerkenwell W - Codes WHHL - Whitecross-street - Finsbury - St. Bride W - St. Spride W - Castle Baynard - Christchurch - Cuyenhithe - Allhallows Barking - Broad Street - Allhallows Barking - Broad Street - Allhallows Barking - Broad Street - Allhallows Barking - Broad Street - Allhallows Barking - Broad Street - Allhallows Barking - Broad Street - Allhallows Barking - Broad Street - Allhallows Barking - Broad Street -	17843 19089 16497 113296 9831 93746 10711 20521 13528 9051 18912 16878 13293 16220 12156 13799 10732 1484 13339 7562 11184 4383 6308 4744 5694 7838	6 15 10 8 4 6 2 7 8 2 13 10 11 15 13 26 9 5 4 3 - 2 1 3 3	10 13 7 1 63 5 7 7 2 9 3 5 6 1 7 1 2 6 4 6 1 2 3 1 4 4 1 4 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	4 2 1 1 - 2 1 1 1 1 1 1 1 1 1 1 1 1	2 1 2 1 1 2 2 1 4 1 1 2 2 2 2 4 4 4 	2	111					1		2 - 2 - 1 - 1 1 1 - 1 1 1 1	1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	3	4 - 2 - 3 1 2 - 1 8 8

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W—Workhouse;

H—Hospital;

L—Lunatic Asylum;

w—A Workhouse not belonging to the district in which it is situated.

<sup>•</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district

Saturday, 14th October 1871.			1 (														
	Unverse.	during	during				The 1	DEATI	is reg		d in		Zeek in	nclude			
REGISTRARS' SUB-DISTRICTS.	rated Popu- lation. 1871.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enterio (or Typhoid) Fever	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.																	
Holywell Shoreditch St. Leonard Shoreditch HL†	12429 16545 27832 26944 24153 19257	5 18 20 13 30 15	1 13 12 6 16 5	1 4 4 - 5 2	- 4 1 8 -	131111			11111	1		1 1 1 -	11111	1 2 2	2	111111	1 4 5 -
Hackney-road Green, Bethnal Green WHL† - Church, Bethnal Green - Town, Bethnal Green -	29808 42443 26574 21375	27 28 17 14	9 13 7 8	1 2 2 1	1 3 1 2	1 1 1	1	1	-	1 2 -	-	1 -	2	1 -	1111		
Artillery Whitechapel	6651 15844 15550 11434 7323 10381 9149	8 9 13 3 2 9 10	1 4 17 5 12 7	1 - 3 - 5	2 3 2 2 1 -	1111111	1101111	1		111111	2	1111111	1	1 - 1 -	3 -	3 - 2	8 10 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	8 19 4	9 9 6	1 2 1	·1 3 1	ī -	2	2 -	-	-	= .	1	1	1.	1 1 1	1	- - 4
Shadwell W	11623 15930 30025	6 4 26	8 6 12	3 1 1	-	1 2	-	-	-		-			1 - 2	- - 1	2 1 3	- 1
Mile End Old Town West Mile End Old Town East WwH	38126 55020	26 44	16 22	4 ;	8 4	2	1	ĭ	-	- 2	=,		-	1	-	4	ī
Bow WwHL†	67777 48500	81 40	30 22	8 8	.8	3 2	-	-	-	1 ~	-	2 -	-	2 2	2 5	1 6	9 2
SOUTH DISTRICTS.  Christchurch Southwark W. St. Saviour Southwark H. Kent-road Borough-road WH. London-road L. Trinity Newington St. Peter Walworth W. St. Mary Newington H.	14547 15667 20430 16694 18959 23673 48232 16786	6 11 17 11 12 25 38 12	3 5 8 6 9 8 32 9	1 1 4 2 1 1 5 5	1 2 - 1 1 1 6 1	1 2	1 1 2 -	1111111	1	1118111	1111111	111111	1.	1	2	- 2	7
St. Olave Southwark H St. John Horsleydown W Leather Market - St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	3 6 14 11 47 21	17 4 8 8 22 8	1 3 2 2 2 3	3 1 1 2 3 1	- 3	1 2 -	1 1 1 -	111111	1	1	1	11111	1	2 - 1 1	2 - 2 -	16
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W	14086 18453 19470 85831 41284 81213 35431 12534	8 16 18 29 32 25 22 15	6 12 12 15 15 10 17 5	2 3 - 8 2 3 1 3	3 1 - 4 1 4 2	- - 1 1 11 11	1 1		1111111	2 1	1111111	2	1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 - 1	6 8 - 11 -
Clapham HL	27348 53988 19797 9438 14479	18 50 8 3 12	7 27 8 2 2	3 9 2 -	2 3 1 -	1 1 -	2 -	1 2 -	11111	1 1	ī - -		11411	2 3	2 -	2 -	3 -
Dulwich Camberwell WL†L†	4041 31251 42159 33851	2 18 38 29	9 10 13	- 2 5 4	5 1 1	- - 1	1111	ĩ	1111	-		- 1 1	-	2 2 1		-	4 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	48 7 10 14	13 2 4 9	3 -	2 1 3 6	.1	1111	1111	-	1 1 1 1		-	1.1.1.1	1		-	- 4
Eltham - Lee Lewisham Village W Sydenham	4528 16430 11508 19016	8 9 11	3 3 7	1 2 1	- 1 - 2		1111	1111		-	1111	111		- - ī			·
Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead, West	9503 17229 18319 13028 15290	5 12 15 4 12	2 9 7 4 10	2 2 2 - 2	3 1 2 1	11111	11111	11111			11111	1	11111	ī		11111	4

The following are Outlying Workhouses (indicated in the Tables by w):

Total Andrew Sq. Workh, is in Chelsea North-west sub-district.

The Strand - "Tottenham-court sub-district.

London City - "Islington East.

Do. do. - "" Hackney sub-district. Holborn Workhouse is in Hoxton New Town sub-district.

London City " [Mile End Old Town Eastern sub-dist. and Bow sub-district.]

Stepney - " " Bow sub-district.

sub-district. Stepney - ...
† Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 14th October, 1871. Under the Superintendence of the Astronomer Ronal.

level of the sea. The readings of the baronneter are consumered to be conneced was a constituted of the Royal Society's flint glass standard baronneter. The observations are taken at 91. A.M.; noon; 81. P.M.; and 91. P.M. The means of the readings of the baronneter, the dry theory of the settings of the baronneter, the dry theory of the settings are converted into mean thermometer, and the wet thermometer, observed at these times are converted into mean as the results deduced from the maximum and minimum thermometers, as determined by the self-experizering thermometers, he proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glasher from the thermometrical observations taken at the Royal Observatory, Greenwich, in the 50 years ending 1985, December 31. \*\* In reading the 17th column it will be borne in mind that + is read." \*\* highery, and - "donery," than the average. The results of all the meteorological observations are to be understood as : for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M., as well 26 The readings of the barometer are considered to be coincident with those daily values by the application of corrections deduced by James Glaisher, F.R.S., from five The femperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpton" Police Ship, at the depth of about years' observations ending 1845, December 31.—See Pivit. Trans., part 1, 1848. The mean daily dew point and degree of humidity are deduced from those mean daily values of the dry and The readings of these instruments are registered under the super-nt inspector on heard the ship, by permission of Lieut.-Col. The reading of the barometer increased from 29.59 in. at the beginning of the week 80.77 in. by 9h. A.M. on the 10th; decreased to 80.03 in. by 8h. P.M. on the 11th; increased 30.38 in. by 9h. A.M. on the 13th; and was 30.00 in. at the end of the Week. is 5 in. above the ground. receiving Gauge 0.00 0.00 0.00 0.00 00.0 0.00 Sum 00.0 00.0 Robinson's. Amount of wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition, Movement of Air intendence of the resident inspector on board the ship, by permission Henderson, R.E., C.B., Commissioner of Metropolitan Police. 119 Sum 836 24 of 24 Obs. Pressure on square foot 0.0 As deduced from Anemometers. 23 barometer is considered to be 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.3 0.0 0.5 0.5 bs. est. : applying to the civil day, or from midnight to midnight. N. &NNE. E. & ENE E. & NOTES SSE. & SE. E. & E. by N. S. bv E. P. M. Direction, 20 Variable. W. & NNW. NW. & WSW. E. & E. by S. Calm & S. General NNE. & ENE. Calın & A.M. SE. 19 The height of the cistern of the Saturation being repre-sented 18 778 18 98 64 80 on an average mean temthe day and perature of the same day mean tem-8.0 5.9 6.9 3.1 17 1 1.2 0.0 1.0 1.9 1.0 1.3 0.0 Between Dew Point 91 Air Temperature 12.5 8 15.0 est. 15 12 A little light cloud present at noon; cloudless at other times. Hazy and misty. in the Fogry in morning. Generally overcast till night; then cloudless. A few drops of rain fell in the atternoon. FOGEV. Thin cloud present in the afternoon; cloudless otherwise. Very line. Hour frost at night. Mean 4.0 6.8 5.4 6.3 2.5 14 and Forgy in early morning. Generally cloudless till noon; amounts of cloud prevalent afterwards. A fine day. morning 52.0 52.4 52.3 the Thames at Greenwich, by self-registering Highest, Lowest 13 51. 50. 50. 51 AND ATMOSPHERE in 55.0 55.2 53.6 54.0 00 53.1 12 52. Foggy Grass, as Thermo-31.3 26.5 26.3 32.7 a self-0 9 9h. ing 11 29. 28. READINGS OF THERMOMETERS before meter with placed on the Grass. Highest in the sun, as shown by a self-regis-76.6 6.88 6.0 101.1 0 9. prevalent SKY 40.0 38.1 40.1 41.2 38.4 41.0 daily 6 39. 44.9 46.3 45.8 45.0 2 45.5 Moan 00 47. 17.7 17.1 55.0 35.5 19.5 0 Range 22.1 in 1 28. 22. 36.9 39.7 33.0 31.2 35.1 00 est. 9 36 56.8 54.6 01 8 57.2 ELECTRICITY. est, 58. 59 and re-32 degr. Fahren-90.02 30.243 30.049 30.260 30.267 30.059 30.106 Rading Positive, with New MOON. of In GC. : : : No. of Columns 000 12 13 14 MONTH AND DAY. OCTOBER. WEDNESDAY THURSDAY. MONDAY. . 1871. MEANS DATE. OCTOBER TUESDAY SUNDAY

# WEEKLY RETURN

#### BIRTHS AND DEATHS IN LONDON

### AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 42. 1871. Vol. XXXII.] Week ending Saturday, October 21. [Price 1d,

General Register Office, Somerset House, 23d October 1871.

During the week ending Saturday the 21st instant, 4798 births and 3372 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 24 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the Seventren English Cities and Towns were as follow:—London 21 per 1000; Portsmouth 23, Norwich 31, Bristol 27, Wolverhampton 40, Birmingham 24, Leicester 28, Nottingham 26, Liverpool 31, Manchester 30, Salford 35, Bradford 23, Leeds 25, Sheffield 29, Hull 19, Sunderland 33, and Newcastle-upon-Tyne 30. The usual summer fatality from infantile diarrhoa has all but disappeared, although the deaths referred to this cause were again excessive in Birmingham and Liverpool. The fatal cases of small-pox in these 17 towns, which in the three previous weeks had been 131, 142, and 156, declined last week to 135; of these, 53 occurred in London, 15 in Sheffield, 14 in Newcastle-upon-Tyne, 16 in Manchester and Salford, 10 in Sunderland, 7 each in Norwich and Wolverhampton, 3 in Nottingham, and 2 each in Liverpool, Portsmouth, Bristol, Birmingham, and Hull. These numbers showed a considerable decline in Sunderland and Wolverhampton, while the cases in Manchester and Salford, and in Sheffield were more numerous.

In Edinburgh the annual rate of mortality from all causes last week was 27 per

1000 persons living, in Glasgow 28 per 1000, and in Dublin 24.

In Paris 709 deaths were returned in the week ending 20th instant, and the annual death-rate was equal to 20 per 1000 of the estimated population. In Brussels 83 deaths occurred in the week ending the 14th, and the annual deathrate was 23 per 1000. In Berlin during the week ending the 19th, 588 deaths (including 126 from small-pox, and 2 from Asiatic cholera) were recorded, showing an annual rate of 34 per 1000. In Vienna the 285 deaths in the week ending the 14th gave an annual rate of 24 per 1000. In Rome 132 deaths were registered in the week ending the 8th, and the annual death-rate was 31 per 1000.

In the City of New York 552 deaths were registered in the week ending

30th ultimo, and the equivalent annual rate of mortality was 31 per 1000.

In Bombay the deaths registered during the week ending 26th ultimo were 271,

and the mortality was at the annual rate of 17 per 1000.

In London 2068 BIRTHS and 1291 DEATHS were registered last week. After making due allowance for increase of population, the births were 138, and the deaths 145, below the average numbers in the corresponding weeks of the last ten years.

The 1291 deaths in London last week included 53 from small-pox, 34 from measles, 40 from scarlet fever, 6 from diphtheria, 23 from whooping-cough, 35 from different forms of fever (of which 11 were certified as typhus, 15 as enteric or typhoid, and 9 as simple continued fever), and 46 from diarrhea; thus to the seven principal diseases of the zymotic class 237 deaths were referred last week, against 288 and 271 in the two preceding weeks. The fatal cases of small-pox, whooping-cough, fever, and diarrhea were less numerous than in recent weeks, while those of scarlatina showed an increase, and exceeded the number returned in any week since the middle of July last. Measles showed the greatest fatality last week in Westminster, Islington, Somers Town, and Southwark; scarlet fever in Kensington, Brompton, Islington, and Bermondsey; and whooping-cough in Paddington. The deaths from diarrhea, which were 487 in the week ending 26th August last, have since steadily declined, and were last week but 46, corresponding with the corrected average weekly number; 34 were

 $\lceil 42. \rceil$ 

of infants under two years of age. The death of an infant, aged seven months,

was certified from "cholera infantum, 4 days."

The fatal cases of small-pox in London, which had been 51, 72, and 61 in the three preceding weeks, were last week 53, showing an excess of 40 upon the corrected average number in the corresponding week of the ten years 1861–70. In the three small-pox Hospitals at Hampstead, Homerton, and Brixton 13 deaths were recorded last week. The greatest fatality was shown last week in Kentish Town, Hackney, Bloomsbury, Bow, and Battersea.

The deaths referred to inflammatory diseases of the respiratory organs, especially to bronchitis and pneumonia, showed a further increase last week upon the numbers

so returned in recent weeks.

To different forms of violence 38 deaths were referred last week; of these, 30 were the result of accident or negligence, including 13 from fractures and contusions, 5 from burns and scalds, 2 from drowning, and 9 from suffocation, of which 7 were of infants. Of the deaths from fractures and contusions, 3 were caused by horses or vehicles in the streets; these raise the number of deaths registered from street accidents in London since the first of Jamary last to 165. The death of a labourer, aged 47 years, was certified as resulting from a sun-stroke on 24th of August last. Three cases of suicide, 3 of infanticide, and one of murder, were registered during the week.

In the large Public Institutions of the Metropolis 204 deaths were recorded last week, or 16 per cent, of the total deaths; of these 106 occurred in Workhouses

and 95 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.74 in.; the highest reading was 30.00 in. at the beginning of the week, and the lowest 29.52 in. on Thursday morning. The mean temperature of the air was 53° 5, or 4° 0 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature on Sunday, 15th instant, was 47° · 2, and 3° · 1 below the average, while by Thursday it had increased to 58° 5, and showed an excess of 9° 2; on Saturday the mean fell again to 48° 7, which was slightly below the average. The highest day temperature in the shade was 68° 4 on Wednesday, the lowest night temperature 34° 5 on Sunday; the entire range of temperature in the week was, therefore, 33° 9. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 108° 9 on Tuesday. The difference between the mean dew-point temperature and air temperature averaged 2°.7. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 51° 5 last week. The mean degree of humidity of the air was 91, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air in the week averaged 7 miles per hour. Rain fell during the week to the amount of 55 of an inch, nearly the whole of which fell on Friday and Saturday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 49° 3 in Birmingham, to 55° 9 in Bradford; the lowest recorded night temperature was 33° 5 in Norwich, and the highest day temperature in the shade 67° 4 in Nottingham. Rain was measured last week in each of these towns; the amounts varied from 36 of an inch in Norwich to 1·20 in. in

Newcastle.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 12°·0, or 2°·2 above the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 20°·2, the lowest night temperature 1°·4, and the highest temperature in the sun was 42°·7. The wind blew at the rate of 12 kilometres an hour, and the rain-fall measured 1·40 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 228,087 cubic metres, and at Barking 274,153 cubic metres, equivalent to about as many tons by weight.

TABLE 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FORTY-SECOND Week of Ten previous Years.

Fotal Births  Males Females .	1861 1846 954 892	1862 1863 944 919	1863 1989 1001 938	1864 1984 997 987	1932 963 969	1866 1964 1035 929	1867 2171 1082 1089	1868 2187 1124 1063	1869. 2095 1061 1034	2072 1027 1045	Weekly Average in 10 Years. 2005·3 1018·8 986·5	1871 2068 1057 1011
Total Deaths Males Females .	1065	1181	1205	1335	1265	1464	1332	1395	1476	1334	1305·2	1291
	557	622	607	669	647	800	710	691	768	707	677·8	672
	508	559	598	666	-618	664	622	704	703	627	627·4	619

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	July 29.	Aug. 5.	Aug. 12.	Aug. 19.	Aug. 26	Sept. 2.	Sept. 9.	Sept. 16.	Sept. 23.	Sept. 30.	Oct. 7.	Oct. 14.	Oct. 21.
COTAL Deaths	1420	1382	1568	1715	1682	1485	1422	1422	1411	1390	1283	1275	1291
Deaths under 5 years of age - Deaths 5-20	739 104	706 106	825 125	960 107	967 100	824 86	767 94	717	686 97	590 107	539 121	49 <b>7</b> 103	492 100
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	203 159 177 38	177 188 165 40	192 193 193 40	187 204 217 40	194 197 180 44	178 184 178 35	189 161 160 51	178 223 157 35	201 203 181 43	206 245 202 40	178 212 183 48	202 203 221 49	197 206 238 58
Deaths from Small-pox Measles Measles Diphtheria - Diphtheria - Whooping-cough	122 18 19 8 22	87 18 24 5 25	96 28 30 5 41	80 19 21 4 30	82 20 24 6	78 19 24 9	81 21 26 3	57 16 32 8 32	89 23 27 7 24	51 18 36 6 30	72 25 38 5	61 34 29	53 34 40 6
", Typhus fever - ", Enteric (or Ty-) " phoid) fever -	9	6	6	7	25 4 11	7 15	8	32 11 25	3	8 23	21	27 6 24	23 11 15
simpleContafever high production of the second seco	7 201 17	225 18	7 299 15	5 425 40	7 487 28	353 20	11 293 24	11 268 15	6 205 2	8 153	7 80 1	12 69 2	9 46 1
" Phthisis Bronchitis Pneumonia - Heart Disease -	149 48 52 49	152 68 40 65	147 51 34 62	138 53 34 67	145 53 30 60	164 59 37 61	153 47 38 49	146 58 39 62	139 62 37 54	166 83 39 71	143 84 56 60	140 113 62 73	147 120 80 58
Iean Temperature of the Air	60.4	60.3	68.3	67.1	63.0	64.0	€0.5	62.6	53.6	50.2	51.9	45.5	53.5
Mater of the Thames -	65.6	63.9	66•4	69.6	70.5	64.5	64.6	63.4	60.1	56.2	53.7	52.7	51.5
Iumidity of the Air	75	70	68	69	76	71	78	71	70,	88	80	80	91
Rain-fall in inches	0.66	0.23	0.00	0.69	0.09	0.02	0.66	0.00	0.10	3.34	0.77	0.00	0.5

### METEOROLOGICAL OBSERVATIONS. (See Table 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield: J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Lecds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 21st day of October 1871, in the following large Towns.

		-								_	
CITIES	Area	Population	Persons	Births registered	DEATHS registered	TEMPERA (F.	TURE OF		THE AIR.	RAIN	FALL.
BOROUGHS.  (Municipal Boundaries' for all except London.)	in Acres.	estimated to the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 21st Oct. 1871.	during the Week ending 21st Oct. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Cent metr
Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	4798	3372	68.4	33.2	52.8	11.56	0.65	1.6
LONDON	77,997	3,263,872	41.8	2068	1291	68*4	34.2	53.5	11.95	0.22	1.4
PORTSMOUTH	9,513	113,450	11.9	72	49	66*8	39.6	54.6	12:55	0.39	0.9
Norwich	7,472	80,533	10*8	47	. 48	63.0	33.2	51.7	10.94	0.38	0.8
BRISTOL	4,688	183,298	39.1	100	96			1	-	-	
WOLVERHAMPTON -	3,387	68,476	20.2	43	52	65.2	39.8	52.6	11.44	0.80	2.0
BIRMINGHAM	7,831	344,980	44'1	258	158	65.7	33.8	49.3	9.61	0.43	1.5
LEICESTER	3,200	95,882	30.0	76	52	65.2	35°2	53.3	11.84	0.43	1.0
NOTTINGHAM	1,996	86,929	43°6	57	44	67.4	37.2	53.3	11.84	0.38	0.9
LIVERPOOL	5,108	494,649	96.8	326	292	62°1	40.2	52.7	11.20	0.74	1.8
MANCHESTER	4,486	356,099	79.4	224	204	67.0	37.0	53.3	11.84	0.81	2.0
SALFORD	5.172	125,422	34.3	97	84	66.5	37.9	52.5	11.39	0.98	2.4
BRADFORD	6,590	146,987	22.3	97	66	65.7	42.2	55.9	13.58	0.63	1.6
LEEDS	21,572	260,657	12.1	245	125	66°0	39*0	53.8	12.11	0.83	2.8
SHRFFIELD	22,830	241,507	10:6	192	132	65.0	38.2	53.3	11.84	0.64	1.6
HULL	3,562	122,266	34.3	90	44	63.0	87.0	52.0	11.11	0.72	1.8
SUNDERLAND	3,306	98,797	29*9	57	63	-	-	1 -		-	-
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	73	74	62.0	40.0	51.7	10.94	1.50	3.0
EDINBURGH	4,427	201,728	45.6	140	104	64.7	36.0	51.9	11.06	0.30	0.4
GLASGOW	5,063	479,227	94.7	366	253	-			-	-	-
DUBLIN	9,745	310,565	31.9	170	141	64.9	85.0	52.5	11.39	0.69	1.7
								-			-

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by add 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs show a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, population being assumed to be now stationary.

TABLE 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the We ending Saturday the 21st day of October 1871.

	ANNUAL				Th	e Deat	ns regi	stered :	in the	Week in	clude			00.
BOROUGHS, &c.  (Municipal Boundaries for all except London.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhœa.	Violence.	Inquest Cases.	
Total of 17 Towns -	24	2874	716	565	135	54	78	10	56	122	163	86	148	
LONDON	21	1291	259	296	53	34	40	6	23	35	46	38	75	. 2
PORTSMOUTH	23	49	15	11	2	-	-		1	3	3	2	3	ľ
Norwich	31	48	9	18	7			-		1	2		1	1
BRISTOL	27	96	18	28	2	2	6	1	2	6	5	5	6	1
Wassers	40	52	16	7	7	2	-	_	4		3	1	1	
WOLVERHAMPTON -	24	158	50	23	2	3	. 3	1	- 3	- 5	23	6	9	
BIRMINGHAM	28	52	23	13		_	-	_	-	1	6	1	-	1
LEICESTER	26	44	8	6	8	1		49	-	9	2	1	8	1
LIVERPOOL	31	292	91	59	2	4	12	1	8	16	28	14	17	1
MANCHESTER *	30	204	55	28	-5		7		6	9	11	4	13	ı
SALFORD	85	84	27	11	11	1	2	-	3	3	7	2	4	ı
BRADFORD	23	66	15	11	-	1	1	-	3	1	7	1	1	1
LEEDS	25	125	43	14	~	1	-	1	2	13	6	4	6	1
SHEFFIELD	29	132	40	16	15	-	3	-	-	6	.7	5	6	1
HULL	19	44	12	9	2		2	-	-	4	1		-	1
SUNDERLAND	33	63	13	6	10	2	1		-	8	3	2	2	1
NEWCASTLE-ON-TYNE -	30	74	22	9	14	3	1		1	, 2	3		1	1
DUBLIN	24	141	20	32	7	1	11	1	2	8	7	1	, 1	

TABLE 5 .- DEATHS in LONDON Registered in the FORTY-SECOND Week of the Year 1871.

ZADIN T.						_			the FORTY-SECOND Week				10				
	he Teek 61-70	Sa			7eek ctobe					reek 61-70	Sat	In t	y, O	Veek	r 21,	ng 1871	l.
A	se of the		Deat	ths o	f Per Age	sons	of		GAYGIG ON DILAMY	es of tond Wars 18		Dea	ths o	of Per	sons	of	
CAUSES OF DEATH.	Averages of the Forty-second Week the 10 years 1861-70	ALL AGES.		der 0.	er 40.	er 60.	er 80.	and	CAUSES OF DEATH.	Averages of the Forty-second Week the 10 years 1861-70.	ALL AGES.	Un	der	under 40.	under 60.	under 80.	and
	Fold in th	Mean Tem.			and under	and under	and under	Years upwards.		Forti	Mean Tem.				pun pr	pun pu	upwards.
Mean Temperature	20.8	53.2	0-5	5-20.	20 aı	40 ar	60 ar	(n)	Mean Temperature -	20.6	53.5	0-5.	5-20.	20 and	40 and	60 and	dn
ALL CAUSES - ; -	1305.2	1291	492	100	197	206	238	58	9. Stricture of Intestines - 10. Fistula	:7	1 7		-	-	- 1	-	=
SPECIFIED CAUSES	1299 1	1289	491	100	197	205	238	58	11. Stomach Disease, &c 12. Pancreas Disease, &c 13. Hepatitis	5.6 1 2.9	7 9		1	83	2 - 2	8 - 9	1
I. ZYMOTIC DISEASES. ORDER 1.							П		14. Jaundice	4°6 16°4	3 20	1 -	ī	3	11	2 1 5	1
1. Small-pox	12.2 25.8 105.7	53 34 40	18 33 25	16 1 14	16 - 1	2 -	1 -	B	16. Spleen Disease, &c ORDER 5.	•1	-		_	_	-	_	
4. Diphtheria 5. Quinsy	11:2	6	5	1 -		-	-	E	1. Nephritis	1°3 6°9	6 - 9	1	1	- 4	1 8	3	-
6. Croup 7. Whooping-cough 8. Typhus	14.0 31.2	10 23 11	10 22 1	1 3	5	1	ĩ		4. Diabetes 5. Calculus (Stone)	1:1	2		-	-	1	1	-
- Enteric or Typhoid Fever - Simple continued Fever - 9. Erysipelas	10.0	15	1 2 4 2	3 8 2 1	5 3 1 1 7	2	1 2 - 3	Ē	6. Cystitis 7. Kidney Disease, &c	7:5	4 7		-	2	1	1 4	1
10. Puerperal Fever (Metria) 11. Carbuncle 12. Influenza	8:2	7 7 -		-	-		- 1	1	ORDER 6. 1. Ovarian Dropsy 2. Uterus Disease, &c	7	1 5	Ę	1	ī	- 8	-1	E
13. Dysentery 14. Diarrhœa	2·2 42·4 15·8	3 46 1	1 37	ī	1	1	14	2	ORDER 7.	•4	1			-			-
16. Ague	9 8.3	-	1 - -	- 2	3	- 2	- 1		2. Joint Disease, &c ORDER 8.	4.1	6		3	1	1	1	
19. Other Zymotic Diseases - ORDER 2. 1. Syphilis		8	1	-	_		-		1. Phlegmon	1.8 1.1 1.4	3 1 3	1 - 2		1	1	=	-
2. Stricture of Urethra - 3. Hydrophobia	9.2 1.3	5 -	4 -	-	1111	1 -		1111	IV. DEVELOPMENTAL DISEASES.								
ORDER 3.  1. Privation	.5	1 9	-		-		1		ORDER 1. 1. Premature Birth	18*2	22	22	_	_	_	_	-
2. Want of Breast-milk - 3. Purpura and Scurvy - 4. Alco- (a Del. Tremens -	8.0 1.2 2.3	9 1 4	9	=	- 2	-	-	-	2. Cyanosis 3. Spina Bifida 4. Other Malformations -	2·5 1·2 1·3	3 2	3 2	-	-		-	
holism (b Intemperance - ORDER 4.	2:3	_	-	-			_	Ŀ	5. Teething ORDER 2.	11.0	11	11	_		-		_
1. Thrush 2. Worms, &c	4.2	2 -	2 -	=			-		1. Paramenia 2. Childbirth (see Puerperal ) Fever)	*1 4·9	4	Ē	-	- 2	2	-	-
ORDER 1.  1. Gout	1.0	4				4			ORDER 3.	43.0	59					29	30
2. Dropsy	14.6	12 31	3	2	14	14	13	-	ORDER 4.  1. Atrophy and Debility -	59.9	52	43			1	8	
5. Mortification ORDER 2.	2.7	3	1	-	-		2	=	V. VIOLENT DEATHS, &c.		52			_		0	
1. Scrofula	8·2 20·7 153·8	9 22 147	21 5	10	84	1 43	- 5	E	ORDER 1. (ACCIDENT OF NEGLIGENCE.)								
4. Hydrocephalus III. LOCAL DISEASES.	23.2	15	14	1					1. Fractures and Contusions 2. Wounds 3. Burns and Scalds	17:4 8:7	13	- 2	3	8 -	3	4	- 1
ORDER 1.  1. Cephalitis	12.6	12	,,		,				4. Poison	2.8	5 - 2		1	-	1	-	-
2. Apoplexy	33·8 24·5	43-	7 4	4	3	15	19	2 4	6. Suffocation 7. Otherwise	2.5	9	8 -	_	1.	ĩ	_	-
6. Enilepsy	7.9	7	Ē	- 2	- 2	- 2	-	Ē	ORDER 3. (Homicide.)								
7. Convulsions 8. Brain Disease, &c	46.3 14.0	37 14	36 1	1 2	8	5	3		1. Murder and Manslaughter ORDER 4.	1.7	4	3		-	-	1	
ORDER 2.  1. Pericarditis 2. Aneurism 3. Heart Disease, &c	1:4	4 5	- 2	- - 4	3 2 8	1 2 22	1	- - 2	(SUICIDE.)	.2				_	_	_	
ORDER 3.	57.6	58	4	-	-	22	20		2. Poison	.2 .9 .7 1.0	1		-	1	-	=	E
1. Laryngitis	101°6 2°8 76°7	120	52	1	23 - 0	14	40	11	4. Hanging 5. Otherwise	1.4	1 -		=	-	-	1	E
5. Asthma	76°7 5°5 12°2	80 7 18	45 - 5	1	8 1 1	12 1 4	11 5 7		ORDER 5. (EXECUTION.)								
ORDER 4.  1. Gastritis	2°0 5°6	1 7 5	· - 4	-	1	-	3		1. Hanging	•3	-			-	-	-	
8. Peritonitis	5·1 2·8 2·5	5 2 4	1	2	1	-	1 1	ĩ	Violent Deaths (not classed) Sudden Deaths (Cause un-)		1			1	-	-	
6. Hernia	2.5 3.6	1 2 3	1	-	-	ĩ	1	-	causes not specified or ill-	2.1	2	-	-	-	1	-	
o. Intussusception	-7	3			1	2	-		defined }								

# 56 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

CABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

	88	89				The 1	DEATE	is reg	istere	l in t	he We	ek inc				آ
REGISTRARS' re	Total Braties durit	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Ferer.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON 3,2	251,804 2068	1291	259	296	53	34	40	6.	23	11	15	9	46.	38.	75	204
NORTH DISTRICTS 78  CENTEAL DISTRICTS 68  EAST DISTRICTS 68	61,189 282 51,668 441 33,887 200 38,928 487 66,132 658	213 276 158 279 365	38 48 33 59 81	52 62 86 64 82	2 26 5 9 11	4 12 5 4 9	12 6 3 7 12	2 - 1 - 8	6 4 4 2 7	3 1 ~ 4 8	6 2 4 3	1 8 2 2	9 8 12 16	6 9 8 6	15 19 12 14 15	38 52 23 50 41
St. John Paddington H  Kensington Town WL  Brompton H  St. Peter Hammersmith  St. Peter Hammersmith - St. Paul Hammersmith H  St. Paul Hammersmith H - St. Paul Hammersmith H - St. Paul Hammersmith H - St. Margare HH - St. Margaret Westminster WWHH - St. Margaret Westminster WWHH - St. James's Square - Golden Square W - Stervick Street	18702   37   18702   37   188082   7   191883   7   191883   7   191883   7   191883   18   191883   18   191883   18   191883   18   191883   18   18700   5   18029   18   191883   18   191883   18   191883   18   191883   18   191883   18   191883   191833   191883   1	19 14 26 11 2 10 9 11 10 11 3 20 13 31 3 3 5 3	51312 224 1-733	5371-42331415-11-1-1	1	11	3211 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	811111111111111111111111111111111111111	1		111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1152-1	2 6 - 2 - 1 3 - 19
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<sup>\*</sup>The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 357

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 21st October 1871.

Saturday, 21st October 1871.																	
	T1	during	during	-			The	DEATI	as reg	istered	in th	e We	ek inc	lude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total Birrhs du the Week.	Total DEATHS du the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria,	Whooping-cough.	Typhus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever,	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
## EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26944 24153 19257	8 20 27 18 20 15	9 9 13 10 9 17 8	1 2 2 2 2 2 2 2 -	2 2 3 3 7 2	1	1 - 2 -		111111				111111	1 11 1	1 1 -	- 3	1 8 7
Hackney-road Green, Bethnal Green WHL† - Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	22 30 23 23	12 20 12 6	5 3 .2	3 6 1	1111		1 1 2 -		1111	1 -	1 1 -	1,111,	1 2 1	1111		\$ -
Artillery Whitechapel	6651 15844 15550 11434 7823 10381 9149	3 5 7 6 3 8 5	2 3 4 2 15 4 3	1 17 7 7 20 1	1 2 1 3 -1	1	111111	1	11111111			HELLEL	1.	11111111	1111411		13
St. Mary St. George East St. Paul St. George East St. John St. George East W	17998 21356 8973	12 17 9	8 10 8	-2 -4 -2	3	-	1 -	1:	-	Ĩ.	- ī	-		4		1 1 2	- 6
Shadwell W	11623 15930 30025	8 10 20	1 6 6	3 2		-	11.	î,	=	1 1			-	-		-	
Mile End Old Town West Mile End Old Town East WwH	38126 55020	33 43	20 21	₹7 6	6	1	-	=	-	-	2 -	- 1	-	1	-	-	 4
Bow WidhLt Poplar W	*87777 48500	56 36	34 -21	-6 -8	10 2	4	-	- 1	-	1.1	-	-	1 -	ī	ā	3	9
SOUTH DISTRICTS.  Christchurch Southwark #	14*47 15667 20480 16694 18959 28678 48282 16786	6 10 11 11 14 24 35	5 7 15 8 10 10 18 11	41322464	1 2 1 2 2 2		4	1:	- 1	1	1111111	1111111	11174.711	1 - 1 - 1 2	1111111		1 2 -
St. Olave Southwark H St. John Horsleydown W Leather Market St. Maty Magdaten W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	1 3 22 13 38 14	14 3 6 9 18	1 1 5 2	3 74 4 5 8	1	1	1 3 -	111111	-	111111	111,111	111111	1	1 2 1	1 - 1 2 1	12 - 3 - 1
Waterloo-road 1st H -   Waterloo-road 2nd H -   Lambeth Church 1st -   Lambeth Church 2nd	14086 18453 19470 35831 41284 81213 3 431 12584	7 16 21 37 23 18 13 12	8 5 15 17 17 10 17 4	2 2 4 5 3 2 2	3 6 8 3 4 1	1 3	2	1111111	1	2 1 2		1	1111111	1 - 1111	1111	1 1 1 1	1 53 1 1 92 1
Clapham HL Battersoa W Wandsworth HL Putney Streatham	27348 53988 19797 9438 14479	21 47 14 3 7	5 24 8 - 5	6 -	2 9 2 - 1	1 2 -	1	1		illi	1			1 2 -	1	1	1
Dulwich - Camberwell WL+L+ - Peckham W St. George Camberwell -	4941 81251 42159 88851	4 19 21 19	1 10 15 10	1 3 2	1 3 3 3		- - 1	- c	-	=	-	-	-	- 11	1	1 2 1	š -
St. Paul Deptford	53696 6487 21098 19320	87 4 14 18	10 2 4 9	8 - 1 2	2 1 - 3	1111	1 1 1 1	1111		11111	-			1		1111	
Eltham – – – – Lee Leewisham Village W – – – Sydenham	4528 16430 11508 19016	2 9 11 16	4 8 1	2	i i		1111	2 -	17.11	-11-1		-	-	1111	1171		- 1
Charlton H Woolwich Dockyard	9503 17229 18319 13 28 1 290	6 7 9 2 10	4 2 5 2 4	1 1 2	1	1	11111	1	1111		11111			11111		1111	11110

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - - " Tottenham-court sub-district.

London City - - " Islington East.

Do. do. - - " Hackney sub-district.

Stepney - " Mile End Old Town Eastern sub-district.

Bow sub-district.

Stepney - " Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 21st October, 1871.

[Under the Superintendence of the Astronomer Royal.]

-	-	_	_								).							10 m N	94 m e	Ord R
_		_			Ozon		::	::	::	:	56		those	e dry mean	a five daily y and	esults le the s well	ed hy rerage serva-	od as	er the	eek to reasec
	KAIN.	Collected	in a Gauge	pet		Inches 0.00	0.00	0.03	0.50	Sum 0.55	25		ove the	n av su. eter, the ed into	The mean daily of the dry and	The r. 7, includ	The av	and – "Loudensto	the der red und of Lieu	f the writh; decreased 21st; and
			Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	122	167	147	Sum 1231	24		feet ab	The observations are taken at any readings of the barometer, the driftnese times, are converted into mean	sher, F.R 1848. T values o	edition. column ; and 9h	ters, as d to each, ermomet	wigher," to be to be use of s	Ship, at e registe ermission	inning of the 17 on the
ı		rs.			Mean of 210bs.	lbs. 0.0	0.0	0.0	0.0	:	23	Ш	be 159 to be	ations of th es, are	s Glai part 1, daily	bed in	mome pplied the th	ead "1 ons ar	olice ints ar	P.M.
ı		momete	I	nsquar	Least.	lbs. 0.0	0.0	0.0	0.0	:	22		ed to	observ dings se tim	Jame Jame wans., I	les, For	n ther eing a from	by year this reservati	n" P trume ship,	at the by 9h.
١.	WIND.	om Ane	I	Pressure on square foot,	Great-	lbs.	0.5	8.0	0.1	:	21		nsidere e cons	The rea	ced by hill. Tr	al Tak nbers	inimur tions b aisher	nd tha nd tha ical ob ght.	Scorpic ese ins ard the	0.00 in 86 in. 29.87 ir
ľ		As deduced from Anemometers.	Osler's.		P.M.	v	SEE.	SSE. & SE.	WNWESW S. by W. & SW.	able	20	NOTES.	meter is co	barometer, neans of the observed:	ctions dedu r 31.—See F	Lygrometric or the nur	oper corrected by Mr. Gl	reenwich, in borne in mi meteorolog iht to midni	the side of the "Scorpion" Police Ship, at the depth of The readings of those instruments are registered under the it inspector on board the slip, by permission of LieutCoal more of Metronolitan Police.	sed from 3 sased to 29 creased to 5
				General Direction.	A.M.	Calm & N.		8. S. E.	SSW. &	Variable	19		The height of the cistern of the barometer is considered to be 159 feet above the mean lavel of the sea. The readings of the barometer are considered to be coincident with those	of the Royal Society's flint glass standard barometer. The costervations are taken as viir. A.M.; and 900; Sh. P.M.; and 90. P. P.M. The means of the readings of the barometer, the dry theory are presented by the second properties of the barometer, the dry thousander and the wet theory of the barometer.	obstances, sake application of corrections deduced by James Chaisber, F.M.S., from daily values by the application of corrections deduced by James Chaisber, F.M.S., The mean day years' observations and enting 1845. December 31.—See Phil. Trans, part 1, 1848. The mean dyears' observations are uting 1845. The mean district of the chaise o	the Wobnish and uegree on numbrate and accountables. Fourth edition. The results (web built thermometers by Galasher's Hygrometrical Tables, Fourth edition. The results (web built thermometers by Galasher's Hygrometrical Cables, Schibited the Committee when the Cables of the air, or the numbers exhibited in column 7, include the Cables mean daily temperature of the air, or the numbers exhibited in column 4, as well as the contract of the above the contract of the cables of	outs assume the state of from the maximum and minimum thermometers, as deformined by as the results deduced from the maximum and minimum thermometers. The average the self-septicaries the termometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Gasher from the thermometrical observa-	tions taken at the Royal Observatory, Greenwigh, in the obytans entities, because a state of the Royal Observatory, Greenwigh, in the object of the column it will be borne in mind that his read, "higher," and "fourer," than the average. The results of all the meteorological observations are to be understood as than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight.	The emperature of the water of the "Socrpion" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the about 2 feet below the surface. The readings of these instruments are registered under the about 2 feet below the resident inspector on board the ship, by permission of LieutCon-	Houterson, Mark, 573, 1000.  The reading of the barometer decreased from 30.00 in. at the beginning of the week to 29.79 in. by Sh. R.M. on the 15th; increased to 29.88 in. by 9h. R.M. on the 17th; decreased to 29.88 in. by 9h. A.M. on the 21st; and was sorn in. at the end of the week.
=	Degree	midity,	Satura.	tion	sented by 100.	98	90 8	82	000	91	18		cistern ne readin	s flint glad of 9h. P.	applicati	ters by operature	bed from	coyal Obs	ended free mended free surface the residual R Comr	ne baron on the M. on the
			mean tem-	the day and mean tem-	the same day on an average of 50 years.*	0	++	+ 7.0	+ 4.5	+ 4.0	17		ght of the	of the Royal Society's flint glass s noon; 3h. P.M.; and 9h. P.M.	s by the	and degre- thermome daily tem	milts dedu gistering t re of the	tions taken at the R *In reading the 17 than the average. I applying to the civil	The beliptrature of the whole thermometers, suspended from about 2 feet below the surface, superintendence of the resident of the formulas	ding of the by 9h. F. the end
	DIFFERENCE	-	_	.1	Least. o	0.0	0.4	0.0	0.0	0.2	16		he heis	ne Roy	y value	point bulb mean	self-respectator	is take in read n the a lying t	rmome ut 2 fe	he rea 79 in. 1 29 52 in. a
	DIFF	Dew F	Temperature	Air Temperature	Great-	000	4.9	13.9	1.5	6.2	15				dail			· 是 告 。 。		
6000		Between Dew Point	Tem	Air Te	Mean daily value.	00	0 21 73	4.4	0.0	2.1	14			Generally cloudless throughout	also fell.	The sky became cloudless towards	; variable ay. Fine	morning g seen at	till 3h. P.M.; Gloomy and	n 9h. A.w usly fron
interestation in			Vater of	ich, by	Thermometers,	000	48.8	49.4	51.7	50.1	13	8		udless th	hin rain	cloudles	9h. A.M.	lly in the Lightnin		reast fron
rading			In the Water of the Thames at	Greenwich, by self-registering	Thermometers.	00	52.3	52.6	53.4	52.8	12	PHER		ally clo	rning;	becam.	sast till emainde	ceasions h. P.M.	3h. 50m. lly till n	ng; ove sin fell terward
Under the Super International Control of the Contro	TERS.	Lowest			Minimum Thermo-	1	26.6 43.9 42.6	38.9	45.0	40.0	12	AND ATMOSPHERE			Slight fog in morning; thin rain also fell		.M. Over tring the re	Thin rain fell occasionally in the morning, con 7h, and 10h. P.M. Lightning seen at	Rain fell from 6h. 50m. A.M. again occasionally till night.	arly morni riable. Ri sionally af
	READINGS OF THERMOMETERS.	Highest in	the sun, as	a self-regis- tering Thermo-	blackened bulb in vacuo, placed on the Grass.	0	80.8 67.5 108.9	99.5		80.7	10	SKY AND		rly morning.		e morning.	Rain between 1h. and 2h. A.M. Overcast till 5h. A.M.; variable amounts of cloud prevalent during the remainder of the day. Fine.	Overeast throughout. Thin rain fell occasions and again heavily between 7h, and 10h. F.M. night.	ast. Rain	loudless and very fine in early morning; overeast from 9h. A.W. 7h. P.M.; then very variable. Rain fell continuously from P.M. till 7h. P.M., and occasionally afterwards.
١	GS OF	6	Point.	Mean	daily value.	0	52.0 51.5	52.2		50.8	0	202		fog in early I	enerally overcast.	loudy during the	veen 1h cloud p	through	Generally overcast. but not heavily; also foggy.	and ve
١	EADIN			Mean	daily value.	O <sub>1</sub>		56.6		53.5	00			day.	nerally	oudy du	in betv unts of	again tt.	not he	oudless 7b. P.B P.M. till
١	H	ı	۸٠	Range	in day.	0	25.3 10.0 15.4	20.3		14.9	1			the	<u>5</u>	Cloud night.	R	and nigh	Gr. but fogg	SEE CE
			Dry.		Low-	0	34.5 50.3 49.4	48.1	49.5	46.9	9			and at		100	4 CORP	with 3h. and		
					High-	0	59.8 60.3 64.8	68.4	60.09	61.8	5	A.L.I.		orning	ņ	4	MAIN CO	positive, with between 8h. and	n.	sionally
	BARO-	METER.	daily	rected	and re- duced to 32 degr. Fahren	in.	29.874 59.8 34.5 2. 29.802 60.3 50.8 10 Perigee 29.828 64.8 49.4 1	29.676	29.686 29.816	29.744	4	TEL WOTERICITY		Weak positive in morning and at ght.	No electricity shown.		Occasional positive, with work nsion.	and po	No electricity shown.	Weak positive occasionally.
	MOON.	-		60	Moon.		Perigee	29.676 68	Dec. S. FirstQr.	:	8			Weak pos	No electri		Oceasion tension.	Negative and moderate tension, b	No electri	Weak pos
					DAY.	R.	15	87			mns.	-		15 n	16	17 71	13	19	8	21
			101	101	Monte and Day.	OCTOBER.	Nonday	¥.	FRIDAY.	MEANS	No. of Columns.	THATE	OCTOBER.	SUNDAY .	MONDAY .	TUESDAY .	WEDNESDAI	THURSDAY.	FRIDAY .	SATURDAY.
	_		1		-1		0) 2 :	-	the (F)		-	1	!	1 "						

## WEEKLY RETURN

OF

# BIRTHS AND DEATHS IN LONDON

# AND IN NINETEEN OTHER LARGE TOWN'S OF THE UNITED KINGDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 43. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, OCTOBER 28. [Price 11/2 ds

General Register Office, Somerset House, 30th October 1871.

During the week ending Saturday the 28th instant, 4883 births and 3222 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week in these towns was at the

rate of 23 deaths annually to every 1000 persons estimated to be living:

The annual rates of mortality last week in the Seventeen English Cities and Towns were as follow:—London 22 per 1000; Portsmouth 18, Norwich 27, Bristol 25, Wolverhampton 29, Birmingham 19, Leicester 14, Nottingham 25, Liverpool 24, Manchester 28, Salford 27, Bradford 20, Leeds 19, Sheffield 28, Hull 18, Sunderland 42, and Newcastle-upon-Tyne 30. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had been 156 and 135, were last week 144; of these, 61 occurred in London, 17 in Sheffield, 13 in Newcastle-upon-Tyne, 14 in Norwich, 12 in Sunderland, 8 in Manchester and Salford, 8 in Wolverhampton, 4 in Nottingham, and 3 in Hull. These numbers showed a considerable increase in Norwich, and were also again proportionally excessive in Sheffield, Wolverhampton, Newcastle, and Sunderland.

In Edinburgh the annual rate of mortality from all causes last week was 28 per

1000 persons living, in Glasgow 28 per 1000, and in Dublin 24.

In Paris 687 deaths were returned in the week ending 27th instant, and the annual death-rate was equal to 20 per 1000 of the estimated population. In Brussels 91 deaths occurred in the week ending the 21st, and the annual death-rate was 26 per 1000. In Rome 156 deaths were registered in the week ending the 15th, and the annual death-rate was 36 per 1000. In Florence, with an estimated population of 196,606 persons, 97 deaths (exclusive of still-born) were recorded during the week ending the 14th, of which 26 were fatal cases of diphtheria, and 9 of small-pox; the annual death-rate from all causes was equal to 26 per 1000.

In the City of New York 466 deaths were registered in the week ending

the 7th instant, and the equivalent annual rate of mortality was 26 per 1000.

In Madras the 270 deaths in the week ending 22d September showed an annual death-rate equal to 33 per 1000 of the population.

In London 2202 BIRTHS and 1364 DEATHS were registered last week. After making due allowance for increase of population, the births were 76, and the deaths 88, below the average numbers in the corresponding week of the last ten

vears.

The 1364 deaths in London fast week included 61 from small-pox, 36 from measles, 31 from scarlet fever, 6 from diphtheria, 40 from whooping-cough, 37 from different forms of fever (of which 4 were certified as typhus, 23 as enteric or typhoid, and 10 as simple continued fever), and 32 from diarrhea; thus to the seven principal diseases of the zymotic class 243 deaths were referred last week, against 271 and 237 in the two preceding weeks. The fatal cases of both small-pox and whooping-cough showed an increase upon those in the previous week, while those of searlet fever were somewhat less numerous. The deaths referred to measles were excessive last week in the All Souls sub-district of Marylebone, and in Bermondsey; scarlet fever was somewhat fatally prevalent in Kensington Town sub-district; whooping-cough in Marylebone, Hackney, and Lambeth; and enteric fever in Kennington First sub-district.

[43.] U1

360

The deaths from small-pox in London, which had been 72, 61, and 53 in the three preceding weeks, rose again to 61 last week, exceeding by 49 the corrected average number in the corresponding week of the ten years 1861-70. In the three small-pox hospitals at Hampstead, Homerton, and Brixton, 22 deaths were recorded last week, against 20 and 13 in the two preceding weeks. The largest proportional numbers of fatal cases, out of those institutions, were returned in Hackney, Limchouse, and Newington. In South Hackney sub-district, of nine deaths from all causes, five were of children referred to small-pox.

The 32 fatal cases of diarrhoa returned last week in London showed a further decline upon recent weeks, and were somewhat below the corrected average weekly number. The death of an adult female in Millbank was certified "umbilical

hernia, choleraic diarrhea, 3 days."

The 453 deaths referred to diseases of the respiratory organs, and phthisis, showed a further increase upon those in recent weeks, and exceeded by 20 the

corrected average number in the corresponding week of the last ten years.

To different forms of violence 50 deaths were referred last week; of these, 42 were the result of accident or negligence, including 23 from fractures and contusions, 2 from wounds, 2 from burns and scalds, 6 from drowning, and 8 from suffocation. Of the deaths from fractures and contusions, 4 were caused by horses or vehicles in the streets; one was the result of being run over by a tramway car. Five cases of suicide, and two of infanticide, were registered during the week.

Dr. E. Frankland, F.R.S., in reporting upon the results of a chemical examination of the waters supplied to the Metropolis during the month of October, while acknowledging that the water sent out by those companies drawing their supply from the Thames and Lea had been "submitted to efficient filtration before transmission to consumers," adds, that the water delivered by the Chelsea, Southwark, Grand Junction, and Lambeth Companies was "so polluted by dissolved organic impurities as to render it undesirable for human consumption." The recent heavy rain, by flushing the sewers of Windsor, Reading, and Oxford, and carrying their accumulated filth into the Thames, and by washing the surfaces of manured fields, had doubtless contributed to this result. Dr. Frankland, on a recent examination of some of the reaches of the river, found "the bed of the stream in many places encumbered with great quantities of decaying vegetable matter;" the river Kennet also, which passes through Reading, was entering the Thames in a "very muddy " and polluted condition, its water coloured yellowish brown with suspended matter, " flowing side by side with the cleaner Thames for half a mile, without perceptible " admixture." The condition of the Thames at the Metropolitan intake during the greater part of the month was such as to render it "quite unfit for domestic supply, " and yet the limited storage possessed by the four above-mentioned companies " compelled them to impound this dirty water." Under these circumstances it is not surprising to find that, notwithstanding efficient filtration, the proportion of organic impurity contained in their waters, as delivered to consumers in October, "was between three and four fold as great as it was in September." The Grand Junction Company's water was during the greater part of the month "of a brownish " yellow colour, owing to the large quantity of organic impurity which it contained." The West Middlesex Company having a larger storage capacity had been able to reject the more highly polluted river flood water; the result was that this Company's water was found to contain only half as much organic impurity as that present in the waters of the four above-mentioned companies. The water supplied from the river Lea by the East London Company, although more impure than it was in September, had not deteriorated to the same extent as the Thames waters. The Kent Company's water, drawn from deep chalk wells, fully maintained its character for a low proportion of organic matter; it contained searcely 16th of the amount of these impurities which was present in an equal volume of the Thames waters. The water supplied to both Manchester and Birmingham during October was turbid; but while the Birmingham water contained a "large proportion of organic nitrogen," that supplied to Manchester was "free from all evidence of excremental pollution."

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 30.02 in.; the highest reading was 30.21 in. on Sunday evening, and the lowest 29.51 in. at the end of the week. The mean temperature of the air was 46.9, or 1.0 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations

taken at the Royal Observatory. The mean temperature was considerably below the average on each of the first five days of the week, while an excess was shown on both Friday and Saturday. On Tuesday the mean temperature was only 42°.0 and 6° 2 below the average, while on Friday it was 52° 4, and showed an excess of 5°1. The highest day temperature in the shade was 58°6 on Friday; the lowest night temperature 33°.0 on Thursday; the entire range of temperature in the week was, therefore, 25° 6. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 86°·5 on Monday. The difference between the mean dew-point temperature and air temperature averaged 2°.8. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 51°.6 last week. The mean degree of humidity of the air was 90, complete saturation being represented by 100. The general direction of the wind was variable, and the horizontal movement of the air in the week averaged 7 miles per hour. No rain fell during the week, except on Wednesday morning, and then only to the amount of '01 of an inch.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 211,936 cubic metres, and at Barking 226,979 cubic metres, equivalent to about as many tons by weight.

The REGISTRAR GENERAL has to acknowledge the courtesy of the LONDON WATER COMPANIES, who have furnished him with the average daily quantity of Water supplied for the month of September 1871: thus, according to their account, 114,354,087 gallons or 519,563 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 233.2 gallons (106.0 decalitres), rather more than a ten by weight, to each house, and 32.8 gallons (14.9 decalitres) to each person.

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of September 1871, it may be estimated that about 93,770,351 gallons were probably used for domestic purposes, or about 26.9 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Registrar General has no means of giving a more exact estimate.

out the Registrar General has no means	or giving a me	re exact estima	ite.	
Companies.		Houses, &c.	in Gallons (in Manufactures purposes other	upply of Water cluding that for and for various er than for do- mption) during
	August	SEPTEMBER	August	SEPTEMBER
	1871.	1871.	1871.	1871.
TOTAL SUPPLY	489,545	490,332	116,799,067	114,354,087
From Thames	227,443	227,806	59,685,510	60,233,238
	262,102	262,526	57,113,557	54,120,849
THAMES. Chelsea West Middlesex Southwark and Vauxhall Grand Junction Lambeth	27,838	27,838	9,291,700	9,621,800
	42,502	42,614	10,520,511	10,028,244
	78,552	78,597	16,438,414	16,438,520
	31,820	31,820	11,614,414	12,193,223
	46,731	46,937	11,820,471	11,951,451
LEA AND OTHER SOURCES.  New River East London	119,719	119,543	27,452,000	26,834,000
	102,624	102,624	21,877,500	20,321,500
	40,359	40,359	7,784,057	6,965,349

Note.—The Return for September as compared with that for August shows an increase of 787 houses and a decrease of 2,444,980 gallons of water supplied daily.

#### Analysis of Metropolitan Water Supply for October.

Royal College of Chemistry, 315, Oxford Street, 27th October 1871.

I have the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the Metropolis during the month of October. I append also an analysis of the Manchester water supply, and one, furnished by Dr. Hill, of the water delivered in Birmingham,

H U 2

All the water drawn from the mains of those companies taking their supply from the Thames and Lea had been submitted to efficient filtration before transmission to consumers. Nevertheless, the water delivered by the Chelsea, Southwark, Grand Junction, and Lambeth Companies was so polluted by dissolved organic impurities as to render it very undesirable for human consumption. Heavy rain has scoured out into the Thames the fifth which had accumulated in the sewers of Windsor, Reading, and Oxford during the dry season of the year. Moreover, I found, on recently visiting some of the reaches of the river above the intake of the water companies, that the bed of the stream was in many places encumbered with great quantities of decaying vegetable matter. A flood had also just washed the surfaces of many manured fields, and the River Kennet, which passes through Reading, was entering the Thames in a very muddy and polluted condition, its water, coloured yellowish brown with suspended matter, flowing side by side with the cleaner Thames for half a mile without perceptible admixture. During the greater part of the month the river water at the Metropolitan intake has been in such a polluted condition as to render it quite unfit for domestic supply; but the limited storage possessed by the companies above-mentioned compelied them to impound this dirty water. It is not surprising, therefore, that, notwithstanding efficient filtration, the proportion of organic impurity contained in their waters as delivered in London was between three and four fold as great as it was in September. During the greater portion of the month I have had occasion daily to observe that the water delivered by the Grand Junction Company was of a brownish yellow colour, owing to the large quantity of organic impurity which it contained. The West Middlesex Company possesses greater storage capacity at its works, and consequently had not, up to the 10th instant, been compelled to impound the more highly polluted river water. Analysis shows the advantage of this power of rejecting flood water; for the supply of the West Middlesex company was found to contain only about one half as much organic impurity as that present in the water of the before-mentioned companies.

The river Lea has not shared with the Thames this sudden influx of polluting matter. The

water supplied from that source by the East London Company, although more impure than it was

last month, exhibits no such striking augmentation of organic matter.

The water pumped by the Kent Company from deep wells in the chalk retained unimpaired its usual very low proportion of organic matter. It contained scarcely 1 th of the amount of organic elements present in an equal volume of the waters obtained from the Thames.

Dr. Hill reports that the Birmingham water supply was turbid, and that the organic nitrogen still

continued large in amount. A sample of the water supplied to Manchester, and collected at Owen's College on the 9th inst., was turbid, but it was in other respects good wholesome water, being free from all evidence of excremental pollution,

The Registrar General, &c., &c.

I have, &c., E. FRANKLAND.

RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

Companies,	Date and Place of Collection.	Temperature in centigrade degrees.	Total Solid Impurity.	Organic Car- bon.	Organic Nitro-	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total com- bined Nitro- gen.	Previous Sewage or Animal Contamination. (Esti-	Chlorine.	Total Hard-
THAMES. Chelsea :	10th October, Cab Rank, Horse Guards	13.0	28.70	*538	•058	.001	*220	•279	2490	1.85	22.4
West Middlesex -	{ 10th October, Cab Rank, Portland-road }	13.3	26.80	*283	•048	*001	•180	•229	1490	1.85	20.0
Southwark and Vauxhall	{ Cab Rank, St. George's Church, Borough.	13.3	28.30	*451	•063	.001	•173	•237	1420	1.70	21.2
Grand Junction -	11th October, 14, Lancaster Gate, Hyde Park.	12.2	27.70	*500	*091	.000	•169	*260	1370	1.80	20.6
Lambeth	{ Can Rank, Lambeth-road }	13.0	27:50	*498	*058	.001	*170.	•229	1390	1.85	22.1
OTHER SOURCES. New River	10th October, Cab Rank, Tottenham- court-road.	13.8	28.60	*123	*023	•0.00	:270	•563	2380	1.60	22.7
East London	$\left\{\begin{array}{c} 10 \text{th October}_{1} \\ \text{Royal Hotel, Mile-end}_{1} \end{array}\right\}$	13.3	28*84	*208	047	·00i	260	308	2290	2.15	22.7
Kent	{ 10th October, Deptfd. Bdge. Police Stat. }	13°0	38.60	*022	*012	.000	*338	*350	3060	2*45	30.0
Birmingham*	4th October, Birmingham Waterworks		24.74	*500	.058	.004	•190	•251	1611	1.77	14.85
Manchester	Sth October, Manchester Waterworks, Owen's College.		7.10	230	•036	.001	•029	.066	0	•90	4.58
Column 1.	2.	.3,	4,	5.	6	7.	.8.	.9.	10.	11.	12.

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FORTY-THIRD Week of Ten previous Years.

TOTAL Births Males Females .	1861 1822 945 877	1862 1890 990 900	186 <b>3</b> 1951 1003 948	2031 1044 987	1865 2227 1137 1090	1866 2148 1099 1049	1867 2198 1135 1063	2034 1012 1022	1869 2179 1077 1102	2229 1155 1074	Weekly Average in 10 Years. 2070.9 1059.7 1011.2	2202 1099 1103
Total Deaths  Males Females .	1087	1224	1246	1409	1377	1394	1239	1421	1536	1266	1319·9	1364
	579	609	611	699	721	697	610	719	803	656	670·4	686
	508	615	635	710	656	697	629	702	733	610	649·5	678

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

	Aug.	Aug.	Aug.	Aug.	Sept.	Sept.	Sept.	Sept.	Sept.	Oct.	Oct.	Oct.	Oct.
	5.	12	19.	26.	2.	9.	16.	23.	30.	7.	14.	21.	28.
Total Deaths	1382	1568	1715	1682	1485	1422	1422	1411	1390	1283	1275	1291	1364
Deaths under 5 years of age - Deaths 5-20	706 106	825 125	960 107	967 100	824 86	767 94	717 112	686 97	590 107	539 121	497 103	492 100	527 115
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	177 188 165 40	192 193 193 40	187 204 217 40	194 197 180 44	178 184 178 35	189 161 160 51	178 223 157 35	201 203 181 43	206 245 202 40	178 212 183 48	202 203 221 49	197 206 238 58	213 230 236 43
Deaths from Smallpox	87	96	80	82 20	78 19	81	57	89 23	51	72 25	61	53	61
, Measles , Scarlet Fever , Diphtheria	24 5	30 5	21 4 30	24 6 25	24 9 32	26	32	27 7	18 36 6	38 5	29 9 27	34 40 6	36 31 6
,, Whooping-cough Typhus fever	25 6	6	7	4	7	26 8	32	24	30 8	36 4	6	23 11	40
", Enteric (or Ty-) phoid) fever - Simple Contd fever	10	13	19	11	15	15	25 11	12	23	21	12	15	23
, Simple Container , Diarrhœa , Simple Cholera -	225 18	299	425 40	487 28	353 20	293 24	268 15	205	153	80 1	69	46	32
,, ,, Phthisis , ,, Bronchitis , ,, Pneumonia - , , Heart Disease -	152 68 40	147 51 34	138 53 34 67	145 53 30 60	164 59 37 61	153 47 38	146 58 39	139 62 37	166 83 39	143 84 56	140 113 62 73	147 120 80	157 179 84
Mean Temperature of the Air	60.3	68.3	67.1	63.0	64.0	60.5	62.6	53.6	71 50·2	51.9	45.5	58 53·5	74 46·9
Mean Temperature of the Water of the Thames -	63.9	66.4	69.6	70.5	64.5	64.6	63 · 4	60.1	56.2	53.7	52.7	51.5	51.6
Humidity of the Air	70	68	69	76	71	78	71	70	88	80	80	91	90
Rain-fall in inches	0.23	0.00	0.69	0.09	0.02	0.66	0.00	0.10	3.34	0.77	0.00	0.22	0.01

#### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 28th day of October 1871, in the following large Towns.

CITIES	Area	Population	Persons	Births registered	DEATHS registered		ATURE OF		TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALL.
AND	in	estimated to the	to an	during the	during the			Weekly	GRADE.)		
BOROUGHS.		middle of	Acre.	Week ending	Week ending	Highest	Lowest	Mean	Weekly	T.,	In
	Acres.	the Year 1871.*	(1871.)	28th Oct.	. 28th Oct.	during	during	of the Daily	Mean of the Daily	In Inches.	Centi- metres.
(Municipal Boundaries for all except LONDON.)				1871.	1871.	Week.	Week.	Mean Values.	Mean Values.		menes.
	!							1 1 1 1 1 1	7 600 600 7		
Total of 20 Towns in the UNITED KINGDOM -	213,281	7,204,001	33.8	4883	3222	68.8	32.0	48.7	9.28	0.39	0.99
LONDON	77,997	3,263,872	41.8	2202	1364	58.6	34.6	46.9	8*28	0.01	0.03
PORTSMOUTH	9,513	113,450	11.9	78	39	68*8	36°2	49.0	9.44	0.26	0.66
NORWICH	7,472	80,533	10.8	45	41	57.0	34.2	46.4	8.00	0.25	0.63
BRISTOL	4,688	183,298	39°1	151	88		-				
WOLVERHAMPTON -	3,387	68,476	20.2	40	38	61.0	32.0	48.3	9.05	0.36	0.91
BIRMINGHAM	7.831	344,980	44.1	239	126	60.0	36°8	49.6	9.78	0.27	0.69
LEICESTER	3,200	95,882	30.0	74	26	61.0	34.0	47.8	8.48	0.05	0.02
NOTTINGHAM	1,996	86,929	43.6	51	42	60.6	33.7	48.6	9.22	0.58	0.71
LIVERPOOL	5,108	494,649	96.8	333	222		-				
MANCHESTER - \-	4,486	356,099	79.4	255	188	60.5	34.0	48.0	8.89	0.95	2.34
SALFORD	5,172	125,422	34.3	108	64	60.1	32.8	47.3	8.20	1.08	2.74
BRADFORD	6,590	146,987	22.3	93	57	59.8	41.0	50°5	10.58	0.17	0.43
LEEDS	21,572	260,657	12'1	187	96	60.0	37.0	49.4	9.66	0.58	0.71
SHEFFIELD	22,830	241,507	10.6	205	131	59.0	35.0	49.3	9.61	0.43	1.09
HULL	3,562	122,266	34.3	86	41	59.0	32.0	48*6	9.22	0.14	0.36
SUNDERLAND	3,306	98,797	29*9	62	. 79				-		-
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	86	73	58.0	41.0	49.1	9.20	0.18	0.46
EDINBURGH	4,427	201,728	45°6	110	109	58.7	34.0	49°1	9.20	0.70	1.78
GLASGOW	5,063	479,227	94.7	347	256						-
DUBLIN	9,745	310,565	31.9	131	142	63*4	38.0	51.2	10.67	0.81	2.06
		1	1	1	1						

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by adding 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs showed a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Week ending Saturday the 28th day of October 1871.

	ANNUAL				The	DEAT	ns regi	stered i	in the V	Week in	clude			,
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Institutions.
Total of 17 Towns -	23	2715	656	506	144	57	70	12	72	117	91	88	159	364
LONDON	22	1364	286	279	61	36	31	6	40	37	32	50	97	226
PORTSMOUTH	18	39	9	9	1	3	-	1	-	1	2	1	1	2
NORWICH	27	41	8	8	14	-		-	-	1	-	1	2	2
BRISTOL	25	88	15	20	1	-	4	1	2	6	1	3	4	7
WOLVERHAMPTON -	29	38	7	4	8	1	1	-	2	3	1	-	-	3
BIRMINGHAM	19	126	45	19	1	2	2	2	2	6	8	4	6	8
LEICESTER	14	26	11	5		-		-	-	-	2	-		3
NOTTINGHAM	25	42	6	10	4		1	-	-	4	1	-	-	7
LIVERPOOL	24	222	58	47	1	2	11	1	9	23	11	8	15	39
MANCHESTER	28	188	54	29	3	-	3	-	5	9	- 7	7	17	28
SALFORD	27	64	19	7.	5	1	2	-	1	2	5	2	3	3
BRADFORD	20	57	24	7	-	- ·	tum.	-	2	4	3	2	5	-
LEEDS	19	96	29	20	-	1	-	-	2	6	5	41	4	10
SHEFFIELD	28	131	40	14	17	5	9	-	2 -	2	6	8	2	8
HULL	18	41	6	9	3		1-1	-	1	1	2	-	-	6
SUNDERLAND	42	79	17	9	12	4	6	-	1	10	3	1	1	6
NEWCASTLE-ON-TYNE -	30	73	22	10	13	2	-	1	3 .	2	2	2	2 4	6
DUBLIN	24	142	27	27	8	-	6	-	2	7	8	5	2	52

TABLE 5 .- DEATHS in LONDON Registered in the FORTY-THIRD Week of the Year 1871.

2.1.0.1.2 - 0.						8			the Fourt-Initio wee				201				
	of the Week 1861-70.	Sat	In t	he W	ctobe	endi er 28	ng , 187	1.		f the Week 1861–70.	Sa	In the	he W	eek	endi er 28	ng , 1871	
	es of t ird W ars 18		Deat	hs of the	Pers Ages	ons	of		CANGES OF DEALER	es of t ird W ars 18		Deat	hs of the	Per Age	sons	of	
CAUSES OF DEATH.	Averages of Forty-third	ALL AGES.	Un	der	r 40.	ır 60.	r 80.	and	CAUSES OF DEATH.	Averages of Forty-third the 10 years	ALL AGES.	Un	der	r 40.	r 60.	r 80.	and
	Foi in the	Mean		1	under	l unde	under	Years a		Fo in the	Mean		-	under	and under	nnde	y Years supwards.
Mean Temperature -	48.4	Tem. 46.9	0-5.	5-20.	20 and	40 and under	60 and	80 Ye	Mean Temperature -	48.4	Tem.	0-5.	5-20,	20 and	40 and	60 and under	90 Ye
ALL CAUSES	1319.9	1364		115	213		236		9, Stricture of Intestines -	1.0		_			-		
SPECIFIED CAUSES	1312.3	1356		1	211		236		10. Fistula	2.3	1 8	. ī	-	ī	1 5 -	4	
I, ZYMOTIC DISEASES.			-	<u> </u>					13. Hepatitis	2.7 3.4	2 4 17	3 1	-	1	11	1	E
1. Small-pox 2. Measles 3. Scarlet Fever (Scarlatina)	10.6 27.7 107.4	61 36 31	19 34 23	23 2 5	14	5	-	-	15. Liver Disease, &c 16. Spleen Disease, &c ORDER 5.	17.6		=				4	Ē
4. Diphtheria	9.4	8 3	5	2	1	-	-	- -	1. Nephritis	1.7	1 -	-	1 1	-	- 3	1 7	-
7. Whooping-cough	12.7 29.4	40	39	1 2	- 2	-	1 1 1 1 89	=	3. Bright's Disease (Nephria) 4. Diabetes	1.6	8 2 1	1 -	1 -	1	_	1	-
- Entericor Typhoid Fever - Simple continued Fever - 9. Erysipelas	7.4	23 10 9	3 4 2	8	6 2 2 2	3 - 1	5	-	6. Cystitis 7. Kidney Disease, &c	6.8	11		-	3	5	3	Ē
10. Puerperal Fever (Metria) 11. Carbuncle – – – 12. Influenza – – –	3·3 ·7 ·5	· 3 - 3 2	- 1	- 1 1	2	_	- 1	=	ORDER 6. 1. Ovarian Dropsy 2. Uterus Disease, &c	3.9	3		-	-	2	ī	-
13. Dysentery	2°5 32°1 12°4	$\begin{vmatrix} 2\\32\\1 \end{vmatrix}$	:24	1 - -	1	3	4	-	ORDER 7.	•3	-		_	_	_	_	
16. Ague	9.1	- 1	-	ī	-	-	1 1 1	-	2. Joint Disease, &c ORDER 8.	2.0	6			2	-	2	_
ORDER 2.  ORDER 2.	-4	~			-				1. Phlegmon	2.5 1.4 1.3	1 1 1	- 1		1	1	-	
2. Stricture of Urethra - 3. Hydrophobia	5:7	5 -	ũ	-	-	-	-	-	IV. DEVELOPMENTAL DISEASES.								
4. Glanders ORDER 3. 1. Privation		-		-	-		-	-	ORDER 1.  1. Premature Birth	21.3	21	21					
2. Want of Breast milk - 3. Purpura and Scurvy - 4. Alco- \( a \) Del. Tremens -	8·8 1·7 2·2	3 4 3	3 4	-	- 3	=	-	-	2. Cyanosis	2:4 -7 1:5	1 4	1 2	-	-	-	-	Ĕ
ORDER 4.	1.1	3 2	-	_	_	<u>ī</u>	1		5. Teething ORDER 2.	10.3	8	8	_		_	_	-
1. Thrush	2.6	3 1	3 -		ĩ	-	=	-	1. Paramenia 2. Childbirth (see Puer-)	5.2	8	-	1	6	1		-
I. CONSTITUTIONAL DIS.  ORDER 1.  1. Gout	210								peral Fever) S	40.8	39			_		20	19
2. Dropsy	13·2 28·5	9 30 1	2	1	2 5	111	3 14	-	1. Old Age ORDER 4.		67	59	2		1	5	10
5. Mortification ORDER 2.	3.5	1	1	_	-	-			1. Atrophy and Debility - V. VIOLENT DEATHS, &c.	63.8		20		_		- a	-
1. Scrofula	160.9 16.1 10.0	7 19 157	2 16 3	1 2 19	3 1 73	55	7		ORDER 1. (ACCIDENT OF NEGLIGENCE.)								
4. Hydrocephalus III. LOCAL DISEASES.	21.0	28	25	19	73		Ë	_	1. Fractures and Contusions 2. Wounds	13·1 -6 4·6	23 2 2	1	- 2	13	1	4	1
ORDER 1.	10.8	16	11	2	1	1.	1	-	4. Poison	4·8 5·3	6 8	2 8	-	2	2	-	-
2. Apoplexy	36:2 -24:5 1:3	41 30 3	6 -	2	3 -	12 5	17 17 2	2 3 -	7. Otherwise	2.9	1	8	_	_		_	-
5. Chorea	5.6 43.4	1 2 39	28	1 1 1 3	-	-	ī	-	ORDER 3. (HOMICIDE.) 1. Murder and Manslaughter	2.2	.2	2					_
8. Brain Disease, &c ORDER 2. 1. Pericarditis	2.3	6	1	3	1	1	3		ORDER 4.								
2. Aneurism	3:1 55:8	6 74	=	7	2 8 16	3 19	25	7	(SUICIDE.)  1. Wounds { Gunshot - Cut, Stab -	·2 ·8 ·6	1	E	-	-1	1 -	-	-
ORDER 3.  1. Laryngitis	6.9	4 179	4 68	5	3	33	62	- 8	2. Poison	1.6	1 1 1	B	-	-	1 1 1	-	-
9. Writing	2.2 86.2 7.0	1 84 9	47	1 5	13	11	7 4 4	1.	5. Otherwise OEDER 5.		_		-	-	-	-	-
6. Lung Discase, &c	10.8	19	4	ī	6	-3	4	1	(EXECUTION.) 1. Hanging + -	•1	-	-	-	-	-	-	-
2. Enteritis 3. Peritonitis	1:2 6:4 4:6	8 4	3	- 1	1	2	2	1:	Violent Deaths (not classed)	•3	1	-	-	1	-	-	-
ORDER 4. 1. Gastritis	4.6 2.3 2.1 2.3 8.5	3	1	ī	1	1 2	1 2	-	Sudden Deaths (Cause un-) ascertained)	1'4	-	-	-	-	-	-	-
8. Intussusception	3.2 1.0	3 1	1	=	1 -	-	2	-	Causes not specified or ill-}	6.3	8	3	1	2	2	-	-

TABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet

			b0	. ho		_		The l	Dram	IS TO	ristoro	d in t			the nelude			
		T	during	during				The	DEATI	is reg		u in 1			avidue.			ł
REGISTRARS' SUB-DISTRICTS.		rated Population. 1871.	Total Births du	Total DEATHS duthe Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	biarrhea.	Violence.	Inquest Cases.	In Public Insti-
LONDON	•	3,251,804	2202	1364	286	279	61	36	31	6	40	4	23	10	32	5.0	97	226
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	-	561,189 751,668 833,887 638,928 966,132	828 494 194 469 717	189 320 154 276 425	44 72 23 53 94	40 72 29 57 81	23 4 10 20	5 10 2 5 14	7 9 4 1 10	- 1 1 - 4	6 12 8 2 17	- - 3 1	2 7 2 4 8	8 4 3	5 7 1 8 11	6 12 1 12 19	11 18 8 26 34	28 65 29 \$2 52
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Brompion H - St. Peter Hammersmith H - St. Peter Hammersmith H - Fulham WLLLL - Chelsea North-west HWw - Chelsea North-east L - Hanover Square - May Fair W - Relgrave HH - St. John Westminster HH St. Margaret Westminster WVI St. James's Square - Golden Square W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Berwick-street W - Browney Berwic	HH -	88702 38082 9153 1 28651 6662 56030 23378 24419 23278 21389 18700 19020 56043 38470 27640 10453 10279 17555	44 14 78 5 21 14 15 10 11 11 -2 24 4 7 15	21 16 30 6 1 12 6 13 5 11 4 2 21 14 9 2 8 5 3 8	4 -52 -38 4 2 - 252 1 2 2 -	547113-2111-51-1511	1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	111111111111111111111111111111111111111	1 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		1		1 2 - 1 1	18	8 9 2 1 1 1 1	3 6 4 2 2 3 - 4 - 3 - 1
St. Anne Soho HH -  NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Squaro - WH - Reteory Marylebone H - St. Mary Marylebone H - Christehurch Marylebone - Hampstead WHH - Regent's Park Paneras - Tottenham-court wH - Grov's Ian Lane H - Grov's Ian Lane H - Grov's Ian Lane H - Stanford Town W - Kentish Town W - Islington West* WHHH - Islington East Www - Stoke Newington L - Stamford Hill - West Hackney - Hackney WwHL - South Hackney L -		17555  28574 16419 26387 21795 38392 38110 32271 38192 29360 29216 38562 18066 68198 97801 11,5948 910 6599 28076 50087	21 4 14 14 17 15 16 21 16 24 26. 16 49 60 88 5 6 12 36 34	17 1 16 4 20 17 11 13 26 11 15 14 25 39 80.	3 - 2 - 63 2 2 3 5 4 1 3 9 10 8 7 3 3	118125 1 368457 75 - 229 -	1 1 1 1 2 1 1 9 5	1 2 1 - 1 - 1 - 1 1	1 2 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	111111111111111111111111111111111111111	2 - 1 - 1 1 3 -		2		111 - 22	1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 1 1 2 2 3 7 1 1	4 - 9 6 - 122 1 8 1 1 2 0 2 0
CENTRAL DISTRICTS.  St. George Bloomsbury - St. Giles South WH - St. Giles North Long Are Charing Cross WH - St. Maryle-Strand - St. Clement Danes H - St. George-the-Martyr HHH St. Andrew East Holborn W Safron Hill Safron Hill Safron Hill Anwell Clerkenwell Pentonville Goswell-Street City-road WHHL - Whitecross-street - Finsbury - St. Botolph East London HH Cripplegate - St. Sepulchre H - St. Eride W - Castle Baynard - Castle Baynard - Curistedurch - Curistedurch - Castle Baynard - Christelurch - Curistedurch - Curistedurch - Castle Baynard Christedurch - Curistedurch - Curistedurch - Curistedurch - Curistedurch - Curistedurch - Curistedurch Broad Street Broad Street Broad Street Broad Street Broad Street Broad Street Broad Street Broad Street		11184 4389 6308 4744	7 7 4 8 3 1 1 - 8	5 9 6 8 5 8 8 8 8 8 8 8 13 111 11 11 12 2 3 6 6 5 7 7 3 2 2 6 6 11 11 1 1 3 8 4 4	3 2 1 1 2 2 3 1 1 3 5 2 1 1 2 2 1 2 2	2 8 1 1 - 1 1 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1	1		2	111111111111111111111111111111111111111	1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		2111	1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

| W-Workhouse; | H-Hospital; | L-Lunstic Asylum; | Lunstic Asylum; | w-A Workhouse not belonging to the district in which it is situated.

<sup>†</sup> Officials of Public Institutions are not included. \* The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRIGA, VIOLENCE, &c., registered in each Sub-district

Saturday, 28th October 1871.																	
		during	during				The I	DEATE	is reg	istere	d in t	the W	eek ir	iclude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total Bintus dui	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26944 24153 19257	10 8 22 17 14 19	5 7 13 6 10 9	1 2 1 2 1 3	- 2 5 1 3 1	- 1	- 1	111111	111111	11111	11111	1	111111	2 -	1	3 1 2	3 5
Hackney-road Green, Bethnal Green WHL† - Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	22 23 25 17	12 18 9 6	2 3 2 1	3 5 1	1 1 1	i	4111			1	1 -	1111	1111	1111	1,111	6 -
Artillerv Whitechapel Soitallields	6651 15844 15550 11434 7323 10881 9149	2 6 11 9 5 6	2 7 13 1 10 8 7	3 2 - 4 -	1 4 - 2 2 1	2	111111	1111111		111111	111111		11,1111	111111	1 5 -	1 2 5 1	10 - 10
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	15 16 6	5 8 4	1 1 -	1 1 1		111	-	-	111	-	-	1		111	1 -	3
Shadwell W	11623 15930 30025	3 18 21	8 8 14	3 3	1 2	3	ī	-	-	-	1 -	-	- 1	1	1	1 3	1 -
Mile End Old Town West Mile End Old Town East WwH	38126 55020	33 30	13	3 8	1 4	_	1 -	1	-	1 -	-	=	- 1 -	3	-	î	2
Bow WwHL†	67777 48500	68 42	42 17	11 1	7 4	1		-	-	1	1 -	2	1 -	1	2	2	10 2
SOUTH DISTRICTS.   Christchurch Southwark W	14547 15667 20430 16694 18959 23673 48232 16786	11 11 17 13 11 22 28 11	7 8 11 4 8 17 23 6	2 4 3 - 1 6 4 2	4 1 - 2 1 6 2	- 4	2 1 1 -	111111		1 1 1 1 1 -		1	1 - 1	1	10111111	2 - 1	2 1 1 7 7 -
St. Olave Southwark H St. John Horsleydown W Lenther Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	1 6 5 15 41 10	2 5 11 6 18 10	- 4 1 3	1 2 1 2 2		1 1 3 1 3 1	1 - 1 -		1 2 -	1117111	- 1 - -	11111	111111		- - 1 3	1
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W Kennington 1st W	14086 18453 19470 85831 41284 81213 85481 12534	14 21 17 36 29 26 30 10	7. 6 22 25 20 8 14 3	1 4 5 6 3 8 2	1 3 3 1 1 2	2 10	1	- 1 1 2 -	1 -	14		2 - 3	111111	1 - 1 - 1	111111111	4-11-1	1.60.1.00.1
Clapham HL	27348 53988 . 19797 9438 14479	10 38 12 5 6	7 20 8 4 4	7 8 1 1	1 6 1 3 2	1	1 -	1	1 -	1 (   1	11111		1111	1	1	ī	1.1.1.0.1
Dulwich Camberwell WL†L†	4041 81251 42159 83851	24 34 30	1 18 15 16	4 2 5	5 2 4		1111	11,11	1111	- 1 1	1111		111	1111	1	1	JALL
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19820	81 1 12 14	20 5 6 15	2 1 1	2 - 2 5	1 -	1 -	1 -	1111	1				111	1 2 3	3 8	9.1.11
Eltham Lewisham Village W Sydenham	4528 16430 11508 19016	8 12 8 18	4 4 5 6	1 2	2 1 1 -	,	1111		- 2		1111	1 3 1 1	1 -	1111	- 1 1	1 -	1
Charlton H Woolwich Dockyard	9503 17229 18319 13028 15290	1 12 27 16 18	2 7 7 8 12	1 2 - 4	. 1 3 1 3	11111	11111	11111		1	1 -	11111	11011,	12111	1	- 2 2 - 1	81.1.1.1.

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand - " "Tottenham-court sub-district.
London City - " "Islington East.

Do. do. - - " " Hackney sub-district.

Stepney - " "Bow sub-district.

Stepney - " "Bow sub-district.

sub-district. | Stepney - ., .,
† Lunatic Asylums where paupers are admitted.

TABLE T.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 28th October, 1871.

				•ouozO	:	:	:::	::	:	56		lose day day day day day day day day day day
	RAIN.	Collected in a		surface is 5 in. above the ground.	Inches 0.00	00.00	00.0	00.0	Sum 0.01	25		feet above the mean official and the barons are faired as a channets, the dry conveyted into mean hear. F.B.S. from five 848. The mean daily asked to the fair of the week for the week for the week for the week.
		Dobleson	Amount of	Movement of Air each day.	Miles.	1.26	59 158 140	186	Sum 1143.	24		o be 119 feet aboved to be 120 feet aboved to be coincided as of between the observations and above above
		ters.	efoot	Mean of 24 Ohs.	lbs.	0.0	0.00	0.0	:	23		be 159  to be cookerve of best
		nemome	n squar	Least.	lhs. 0.0	0.0	0.00	0.0	:	67		dd to Thee eading eading eading eading mas, p mas, p ming ag their st their st the st their st their st their st their st their st their st the the st their st the st their st the st the st the st the st the th the st the st the st the st th the st th the st th the st thei
	WIND.	from A	Pressure on square foot	Great-	lbs.	0.3	0.0	1.2	:	123		considered to are considered to so the reading of at these time dat these time date of the considered to the considered to the constant of the
		As deduced from Anemometers	Jaren	Р.М.	WNW, WSW,	S. by E.	NE.&SW. NNW. & SW. S. by W.	S. & S. by W.	ble.	50	NOTES.	cometer is considered to be 139 feet above the mean obscurater are considered to be coincident with those and and and bouncier. The observations are taken at all and and becometer, the dry means of the readings of the burometer, the dry nections deduced by James Glaisler, F.B.S. from tive by 31.—See Prist, Trans, part, 1. Ists. The mean daily deduced from those mean daily values of the dry and Hydrometrical those mean daily values of the dry and Hydrometrical those mean daily values of the dry and Hydrometrical those so stabilities in column 7, include the read at 91. A.M.; noon; 31. P.M.; and 91. P.M.; as well mun and minimum thermometers, as determined by rooper corrections being applied to each. The average of borne in mind that + is read "highery" and — "lonery, the oniching the oniching the oniching the oniching the oniching the oniching the oniching the the Scorpion". Police Ship, at the depth of about of the "Scorpion" Police.  I Metropolitan Police.  I Metropolitan Police.  I Metropolitan Police.  I Metropolitan Police.  I Metropolitan Police.  I Metropolitan Police.
			General Direction,	A.M.	SW.	S. & SE.	0 6	S. by E. s. & s. by E.	Variable.	19		
	Degree			sented by 100.	84	84	98	94	.06	18		cistern (cistern (cistern (cistern (cistern (cistern cistern c
Under the Superintendence of the Astronomer Royal.	, sa	Between mean tem-	perature or the day and mean tem-	perature of the same day on an average of 50 years.*	- 1.6	- 2.5	1   6.26	++	- 1.0	17		The height of the cistern of the base level of the sea. The readings of the Boa. The reading of the supplication of cornean daily values by the application of cornean daily temperature of the air of the air of the man degree of humidity are wet built thermometers by Gansiner's observations of the dry thermometers, the self-readistering thermometers, the self-readistering thermometers, the self-readistering thermometers, the self-readistering thermometers, the self-readistering thermometers, the self-readistering thermometers, the self-readist deduced from the maximum the self-reading the ITh column it will be than the average. The results of all it applying to the civil day or from midu. The impressure of the water of the thermometers, suspended from the sind fremometers, suspended from the sind in the reading of the sading intendence of the resident inspector. The reading of the bacometer incr 80°11 in. by 81° P.M. on the 25th; and d
nomer	DIFFERENCE	-	. [	Least. or	1.5	0.0	0.0	0.0	0.5	16		b heigh of the control of the contro
Astro	DIFF	ween Dew Po Temperature	Air Temperature	Great-	10.5	11.6	6.6	9.5	8.5	15		The level of the
of the		Between Dew Point Temperature	Air Ter	Mean daily value.	4.5	4.4	0.6	3.6	2.8	14		Generally middle of incoughout, Cloudy till between ill between
ndence	_				51.8	51.2	50.2	50.0	50.6	13		ig. Genera the middle dy througho g. Cloudy ally.
uperint		In the Water of	the Thames at Greenwich, by self-registering	Inermome Highest, Lo	53.2	53.0 5	52.9	52.0 5	52.6	12	IERE.	fine.  Is present in the ry fine.  Generally cloudy carly morning.  it.  it.  the early morning intele thin rain intele thin rain.
er the N	. 83		shown by (a self-		33.4 5	29.1 5	29.0 29.0 29.0 5	88.7 5	33.2	=	MOSPE	rring the ery fine. Jouds pr Very fil. It. Gene the earl, laze, ghout. I rain fell in the earl in the
Lund	Теевмометевя.	Highestin Lo	a self-regis-sho	blackened Min placed on the The Grass.	7.07	86.5	76.8 78.0 61.5	70.8 82.9 4	75.3	10	AND ATMOSPHERE	A little light cloud present during the morning. Generally choudless after noon. Hazy, but very fine.  Slight fog in early morning. Clouds present in the middle of the day; cloudiess at other times. Very fine.  Dense fog in morning and at night. Generally cloudy throughout.  Foegr, and a little rain fell in the early morning. Cloudy till night, then cloudies. Foegr and hazy.  Cloudy, but generally fine throughout.  Generally overcast. A little thin rain fell occasionally.  Very fine and nearly cloudiess in the early morning. Cloudy during the remainder of the day. A little thin rain fell between
		-	_					20 00	1 61		SKY	iond poor. He sarry more sarother raines a set other raines as series. Fittle raines ast. A sat. A s
ı	READINGS OF	Dew Point.	n Mean	daily value.	1 42.6	3 41.9	0 41.4 4 42.8 1 43.1	50	44	6		A little light cloud buddless after noon. Slight fog in early to day; cloudless at Dense fog in mornin Evergy, and a little gith, then cloudless. Cloudy, but generally overcast. Generally overcast. Tend 69. A.M.
ı	READ		e Mean	daily value.	3 47.1	3 46.3	9 42.0 1 45.4 7 45.1	5 52.4	46.9	00		A little buddess is Slight for the day; on Dense fo Dense fo Dense for Cloudy, there find Texts is and 9h.
		Dry.	Range	day.	5 15.3	3 22.6	17.9 16.1 20.7	11.5	1.91	1		2 H 58
				Low-	41.5	35.8	34.6 38.0 33.0	47.1	39.6	9		nsion in tension in tension in the day the day of the factor.
				High.	56.8	58.4	52.5 54.1 53.7	58.6	55.7	u)	CITY	able te califre. Oslifre. Oslifre. Cranble ferrable ferrate t seronall sionall cronall.
	BARO-	Mean		duced to 32 degr. Fahren-	in. 30·177	30.153	30.083 30.177 30.102	29.814	30.017	4	ELECTRICITY	Positive, with variable tension is emorning. Occusional weak positive. Insulating lamp not burning. Positive, with variable tension ring the latter portion of the day. Weak positive occasionally. No electricity shown.
	MOON.		Phases	Moon.	:	:	in In		:	00	E	Positive, with variable tension in the morning. Occasional weak positive. Insulating lamp not burning. Positive, with variable tension during the latter portion of the day. Positive, with moderate tension. Weak positive occasionally. No electricity shown.
				DAY.	. 1 22	- 23	. <b>v</b> . 24	27 28 28		nmııs		28 27 28 28 28 28 28 29 L1 28 29 L2
		1	1871.	Month and Day.	OCTORER.	MONDAY.	TUESDAY. WRUNESDAY. THURSDAY.	FRIDAY SATURDAY.	MEANS	No. of Columns	DATE.	OCTOBER.  SUNDAY  MONDAY  TURSDAY  FELDAY  SATURDAY

### WEEKLY RETURN

## BIRTHS AND DEATHS IN LONDON

#### AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 44. 1871. Vol. XXXII. WEEK ENDING SATURDAY, NOVEMBER 4. [Price 1d.

General Register Office, Somerset House, 6th November 1871.

DURING the week ending Saturday the 4th instant, 4986 births and 3276 deaths were registered in LONDON and NINETEEN other LARGE CITIES and TOWNS of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the rate of 24 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the SEVENTEEN ENGLISH CITIES

and Towns were as follow: -London 22 per 1000; Portsmouth 18, Norwich 23, Bristol 25, Wolverhampton 44, Birmingham 18, Leicester 17, Nottingham 19, Liverpool 25, Manchester 27, Salford 30, Bradford 20, Leeds 24, Sheffield 27, Hull 21, Sunderland 41, and Newcastle-upon-Tyne 28. The fatal cases of smallpox in these seventeen towns, which in the two previous weeks had been 135 and 144, further rose last week to 177; of these, 61 occurred in London, 24 in Sheffield, 22 in Wolverhampton, 18 in Manchester and Salford, 14 each in Newcastle-upon-Tyne and Norwich, 12 in Sunderland, 4 in Nottingham, and 2 each in Birmingham, Bristol, and Hull. The numbers in Wolverhampton and Sheffield showed a further considerable increase upon those in recent weeks. The disease has recently shown a satisfactory decline in Manchester, while it has become more fatal in Salford; the annual death-rate from this cause in the past five weeks has not exceeded 0.9 per 1000 persons living in the city, while in the borough it has been equal to 3.3 per 1000. In Liverpool, for the first time since the beginning of October 1870, the weekly return included no death from small-pox; during the 52 weeks ending 28th ultimo 2062 fatal cases were recorded.

In Edinburgh the annual rate of mortality from all causes last week was 28 per 1000 persons living, in Glasgow 25 per 1000, and in Dublin 24; of the 144 deaths in Dublin last week, 14 were referred to small-pox, against 7 and 8 in the two

previous weeks.

In Paris 637 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 18 per 1000 of the estimated population. Brussels 94 deaths occurred in the week ending the 28th ultimo, and the annual death-rate was 26 per 1000. In Berlin during the week ending the 2d instant, 581 deaths were recorded, showing an annual rate of 34 per 1000; 161 deaths were referred to small-pox, equal to an annual rate of 9 per 1000. In Vienna the 276 deaths in the week ending the 28th ultimo gave an annual rate of 23 per 1000. In Rome 170 deaths were registered in the week ending the 22d ultimo, and the annual death-rate was 39 per 1000.

In the City of New York 486 deaths were registered in the week ending

October 14th, and the equivalent annual rate of mortality was 27 per 1000.

In Bombay the deaths registered during the week ending 10th ultimo were 307, and the mortality was at the annual rate of 20 per 1000.

In London 2143 births and 1400 deaths were registered last week. After making due allowance for increase of population, the births were 148, and the deaths 101, below the average numbers in the corresponding week of the last ten years.

The 1400 deaths in London last week included 61 from small-pox, 45 from measles, 38 from scarlet fever, 4 from diphtheria, 51 from whooping-cough, 47 from different forms of fever (of which 4 were certified as typhus, 36 as enteric or typhoid, and 7 as simple continued fever), and 19 from diarrhea; thus to the seven principal diseases of the zymotic class 265 deaths were referred last week, against 237 and 243 in the two preceding weeks. The fatal cases of measles, scarlet fever, whooping-cough, and enteric fever showed an increase upon those in the previous week. The deaths referred to measles were numerous in Somers Town; to scarlet fever in Mile End Old Town, Bermondsey, and Brixton;

[44.]

and to whooping-cough in Marylebone and Islington. Enteric fever was most fatal

in the North and West Districts of London.

The deaths referred to small-pox in London, which had been 61 and 53 in the two previous weeks, were again 61 last week, exceeding by 48 the corrected average number in the corresponding week of the ten years 1861–70. In the three small-pox hospitals at Hampstead, Homerton, and Brixton, 19 deaths were recorded last week, against 13 and 22 in the two preceding weeks. The disease last week showed the greatest fatality in Bloomsbury, Kentish Town, Mile End Old Town, and Bow: in the sub-district of St. George Bloomsbury, of nine deaths from all causes, five resulted from small-pox.

The deaths referred in London to bronchitis, pneumonia, and phthisis further rose from 315, 347, and 420, to 437 last week, these however only exceeded the

corrected average weekly number by 14.

To different forms of violence 46 deaths were referred last week; of these, 36 were the result of accident or negligence, including 17 from fractures and contusions, 6 from burns and scalds, 4 from drowning, 6 from suffocation, and 2 from poison. Of the deaths from fractures and contusions, 6, all of adults, were caused by horses or vehicles in the streets. Six cases of suicide, three of which were effected by hanging, two of manslaughter and one of infanticide, were registered during the week.

In the large Public Institutions of the Metropolis 249 deaths were recorded last week, or 18 per cent. of the total deaths; of these 113 occurred in Workhouses

and 121 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.72 in.; the highest reading was 29.95 in. on Thursday evening, and the lowest 29.40 in. on Sunday night. The mean temperature of the air was 47°·3, or 0°·9 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was somewhat above the average on the first four days of the week, while a deficiency was shown on the last three; on Sunday, 29th ultimo, the mean was 49° 4, and 2° 6 above the average, while on Saturday it had fallen to 44° 7, which was 1° 2 below the average. The highest day temperature in the shade was 57° 8 on Sunday, the lowest night temperature 41° 8 on Saturday; the entire range of temperature in the week was, therefore, 16° 0. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 85° 3 on Friday. The difference between the mean dew-point temperature and air temperature averaged 5° 7. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 49°8 last week. The mean degree of humidity of the air was 81, complete saturation being represented by 100; the air was unusually dry on Sunday, 29th ultimo. The general direction of the wind was E.N.E., and the horizontal movement of the air in the week averaged 11 miles per hour. Rain fell on Monday and Tuesday, but only to the amount of '04 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 45°·3 in Norwich, to 47°·9 in Manchester; the lowest recorded night temperature was 32°·9 in Nottingham, and the highest day temperature in the shade 56°·4 in Portsmouth. Rain was measured last week in each of these towns; the amounts varied from '06 of an inch in Norwich to '98 in

Bradford.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 8°.5, or 0°.5 above the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 14°.3, the lowest night temperature 5°.4, and the highest temperature in the sun was 29°.6. The wind blew at the rate of 17 kilometres an hour, and the rain-fall measured ·10 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 201,053 cubic metres, and at Barking 266,189 cubic metres, equivalent to about as many tons by weight.

BLE 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FORTY-FOURTH Week of Ten previous Years.

Total Births  Males Females .	1861 1836 947 889	1862 1883 920 963	1863 1835 962 873	1864 2017 1019 998	1865 2055 1067 988	1866 2276 1135 1141	2095 1041 1054	1868 2342 1180 1162	1869 2293 1177 1116	2198 1145 1053	Weekly Average in 10 Years. 2083.0 1059.3 1023.7	1871 2143 1122 1021
Total Deaths  Males .  Females .	1078	1184	1252	1454	1413	1432	1196	1521	1772	1343	1364·5	1400
	569	590	659	757	733	743	597	777	890	703	701·8	679
	509	594	593	697	680	689	599	744	882	640	662·7	721

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. L()NDON.—COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

			,			_							
	Aug.	Aug.	Aug.	Sept.	Sept.	Sept.	Sept.	Sept.	Oct.	Oct. 14.	Oct. 21.	Oct. 28.	Nov.
Total Deaths	1568	1715	1682	1485	1422	1422	1411	1390	1283	1275	1291	1364	1400
Deaths under 5 years of age - Deaths 5—20	825 125	960	967 100	824 86	767 94	717	686 97	590 107	539 121	49 <b>7</b> 103	492 100	527 115	552 129
Deaths 20—40 Deaths 40—60	192 193 193	187 204	194	178 184 178	189 161	178 223	201 203	206 245	178	202	197 206	213	201 224
Deaths at 80 years & upwards	40	217 40	180	35	160	157 35	181 43	202 40	183	221 49	238 58	236 43	230 64
Deaths from Small-pox ,, Measles	96 28	80 - 19	82 20	78 19	81 21	57 16	89 23	51 18	72 25	61 34	53 34	61 36	61 45
Scarlet Fever - Diphtheria - Whooping-cough	30 5 41	21 4 30	24 6 25	24 9 32	26 3 26	32 8 32	27 7 24	36 6 30	38 5 36	29 9 27	40 6 23	31 6 40	38 4 51
", Typhus fever - "Enteric (or Ty-) phoid) fever -	6	7 19	4	7	8	11 25	3	8	4 21	6 24	11	4 23	36
" " SimpleContafever " " Diarrhœa -	7 299	5 425	7 487	4 353	11 293	11 268	6 205	8 153	7 80	12 69	9 46	10 32	7 19
" Simple Cholera - " Phthisis	15 147	40 138	28 145	20 164	24 153	15 146	139	- 7 166	1 143	2 140	1 147	1 15 <b>7</b>	166
, Bronchitis , Pneumonia - , Heart Disease -	51 34 62	53 34 67	53 30 60	59 37 61	47 38 49	58 39 62	62 37 54	83 39 71	84 56 60	113 62 73	120 80 58	179 84 74	190 81 71
Mean Temperature of the Air	68.3	67.1	63.0	64.0	€0.5	62.6	53.6	50.2	51.9	45.5	53.5	46.9	47.3
Mean Temperature of the Water of the Thames	66.4	69.6	70.5	64.5	64.6	63 · 4	60.1	56.2	53.7	52.7	51.5	51.6	49.8
Humidity of the Air	68	69	76	71	78	71	70	88	80	80	91	90	81
Rain-fall in inches	0.00	0.69	0.09	0.02	0.66	0.00	0.10	3.34	0.77	0.00	0.55	0.01	0.04

#### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday,
4th day of November 1871, in the following large Towns.

CITIES	Area	Population estimated	Persons	BIRTHS registered	DEATHS registered		TURE OF	THE AIR.	TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)		FALL.
BOROUGHS.  (Municipal Boundaries' for all except LONDON.)	in Acres.	to the middle of the Year 1871.**	to an Acre. (1871.)	during the Week ending 4th Nov. 1871.	during the Week ending 4th Nov. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Centi metre
Total of 20 Towns in the United Kingdom	213,281	7,204,001	33.8	4986	3276	59.0	32.9	46.5	8.02	0.43	1.08
LONDON	77,997	3,263,872	41.8	2143	1400	57.8	41.8	47.3	8.20	0.04	0.10
PORTSMOUTH -	9,513	113,450	11.9	. 67	39	56.4	39*4	46.8	8.22	0.40	1.05
Norwich	7,472	80,533	10.8	68	36	53.0	38*2	45°3	7.39	0.06	0.19
BRISTOL	4,688	183,298	39.1	108	88			-	-		-
WOLVERHAMPTON -	3,387	68,476	20.2	53	58	51.1	37.7	46.0	7.78	0.39	0.88
BIRMINGHAM	7,831	344,980	44.1	255	120	56.2	38.3	46.4	8*00.	0.33	0.84
LEICESTER	3,200	95,882	30.0	74	32	55.7	35.2	46.2	7.89	0.35	0.81
NOTTINGHAM	1,996	86,929	43*6	46	32	55.2	32.9	46.6	8.11	0.30	0.76
LIVERPOOL	5,108	494,649	96.8	381	232	51.7	35.7	45.9	7.72	0.48	1.22
MANCHESTER	4,486	356,099	79.4	242	183	54.5	42.5	47.9	8.83	0.31	0.76
SALFORD	5.172	125,422	34.3	96	72	54.0	39.3	46.5	8.02	0.34	0.86
BRADFORD	6,590	146,987	22.3	86	56	54.0	39.0	46.8	8.22	0.98	2.49
LEEDS	21,572	260,657	12.1	191	118	54.0	40.0	47.1	8,39	0.69	1.78
SHEFFIELD	22,830	241,507	10.6	173	126	53.0	39.5	45.8	7.66	0.60	1.22
HULL	3,562	122,266	34.3	79	50	53.0	39.0	46.9	8.58	0.16	0.4
SUNDERLAND	3,306	98,797	29*9	104	77	_		-			-
NEWCASTLE-ON-TYNE		128,677	24.1	109	70	53.0	42.0	46.5	8.05	0.21	1:30
EDINBURGH -	4,427	201,728	45.6	129	109	49.7	36°0	44.5	6.95	0.80	2.03
GLASGOW	5,063	479,227	94.7	387	234			_			-
DUBLIN	9,745	310,565	31.9	195	144	59.0	38.8	48.8	9.33	0.64	1.6
DODALA				<u> </u>		1		1			1

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by addit 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs shows a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Wee ending Saturday the 4th day of November 1871.

*		dung bat	arady t	10 1012	carety c									_
	ANNUAL				Th	e DEAT	rns regi	stered :	in the	Week in	nclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhes.	Violence.	Inquest Cases.	In Public
Total of 17 Towns -	23	2789	639	511	177	65	85	17	85	107	78	94	158	39
LONDON	22	1400	274	294	61	45	38	4	-51	47	19	46	85	24
PORTSMOUTH	18	39	14	4	1	3	-	1	-	1		2	2	
Norwich	. 23	36	10	4	14	-	-	3	-	-	1	-	2	
BRISTOL	25	88	15	18	2	1	6	-	3	5	1	4	5	1
WOLVERHAMPTON -	44	58	17	2	22	1	-		4	2	2	1	2	
BIRMINGHAM	18	120	24	26	2	1	2	3	4	2	4	5	10	1
LEICESTER	17	32	6	6	644	-	1	-	-	2	2	~	8	
NOTTINGHAM	19	32	4	7	4	2	-	-	-	3	-	2	4	
LIVERPOOL	25	232	59	45		3	18	.3	7	11	9	13	15	2
MANCHESTER	_ 27	183	51	30	6	-	4	1	. 8.	6	12	3 .	8,	1 2
SALFORD	30	72	21	10	12	1	3	1	1	1 3	1	3	6	
BRADFORD	20	56	14	11	100	-	1 1	1	. 1	3	1	-5		
LEEDS	24	118	40	19	1		-	-	2	8	8	7	7	1
SHEFFIELD	27	126	43	13	24	2	4	-	2	2	7	3	3	1
HULL	21.	50	12	6	2		-	-	-	5	1	2	2	
SUNDERLAND	41	77	17	7	12	4	7	-	-	9	6	1	2	
NEWCASTLE-ON-TYNE -	. 28	70	18	9 ,	14	2	1	-	2		4	2	2	
DUBLIN	24	144	23	22	14	1	3		40	9	5	4	5	

Table 5 .- Deaths in London Registered in the Forty-fourth Week of the Year 1871.

· 1																	
	Averages of the forty-fourth Week the 10 years 1861-70.	Sat	urda	y, No	Veek ovem	ber 4	, 187	1.		f the Week 1861-70.		ırday	he W	vem	ber 4	, 187	1.
CANADA OR DRAMI	es of 1		Dear	ths o	f Per Age	sons	of		CATTORS OF DEADIT	이 년 원		Dea	ths o	f Per		of	
CAUSES OF DEATH.	rerage y-fou	ALL AGES.		der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.	Averages orty-four he 10 year	ALL AGES.	Un		r 40.	r 60.	r 80.	and
	Fortin the	Mean			under	under	under	ars grds.	• • •	Avera Forty-fc in the 10 y	Mean		-	under	under	under 80	ars sards.
Mean Temperature	.0.	Tem. 47.3	0-5.	5-20.	20 and	40 and	60 and	80 Years upwards.	Mean Temperature -	45.8	Tem.	0-5.	5-20.	20 and	40 and	60 and	80 Years upwards.
ALL CAUSES -	- 1364.5	1400	552	129	201	224	230	64	9. Stricture of Intestines -	.9	1	_	_	_	-	1	
SPECIFIED CAUSES	1354.6	1397	551	129	201	224	228	64	10. Fistula	5.2	3	ī	-	1	-	1	-
I. ZYMOTIC DISEASES									13. Hepatitis	4°2 4°0	6 4	2	-	ī	1	7	~
ORDER 1.  1. Small-pox  2. Measles	12.1	61 45	20 40	22	12	7	-	-	15. Liver Disease, &c 16. Spleen Disease, &c	16.2	22	1	1	3 -	10	7	
3. Scarlet Fever (Scarlating 4. Diphtheria – –	110.0	38 4	29	8 3	1	- 1	-	Ē	ORDER 5.	1.1	2	1	1	-		-	-
5. Quinsy 6. Croup 7. Whooping-cough -	1·1 - 14·6 - 34·2	9 51	8 51	ī	-		=	E	2. Ischuria — — — — 3. Bright's Disease (Nephria) 4. Diabetes — — — —	10.1	14 8		-	6	6	2	-
8. Typhus	} 57·2	4 36	- 5	8 18	8	- 8	ĩ		5. Calculus (Stone)	1.1	1	-	_	-	-	_	ī
— Simple continued Fever - 9. Erysipelas – – 0. Puerperal Fever (Metris	8.2	10 10	5	1	1 2	ī	2	-	7. Kidney Disease, &c ORDER 6.	8.0	14	-	1		-8	8	_
1. Carbuncle 2. Influenza	1:1	-	=			-	=	-	1. Ovarian Dropsy 2. Uterus Disease, &c	4.8	- 6	1 1	ī	8	1	1	-
3. Dysentery 4. Diarrhœa 5. Simple Cholera -	2·2 27·3 8·0	19	17	-	1	1	2	-	ORDER 7. 1. Synovitis (Arthritis) ~	-1		Ī	_	_	_		-
6. Ague 7. Remittent Fever -	- 1.0	-		4 1	-	-	-	-	2. Joint Disease, &c ORDER 8.	4.8	5	1	1		2		-1
8. Rheumatism 9. Other Zymotic Diseases	9.9	12	Ξ	8 -	5 -	2	2 -		1. Phlegmon	1.8	2 2	- 1	-	1	-	1 2	-
ORDER 2. 1. Syphilis 2. Stricture of Urethra	8.6	9 2	8	-	1	1	- 1	-	3. Skin Disease, &c	1.1		-	_		_		
3. Hydrophobia 4. Glanders		-		-	-	-		-	IV. DEVELOPMENTAL DISEASES.								
ORDER 8.	- ·š	-	-	_	_				ORDER 1. 1. Premature Birth	19.1	24	24	-	-	_	-	
2. Want of Breast-milk 3. Purpura and Scurvy 4. Alco-La Del Tramena	- 10.6	5 2	5 2	-	- 2		-		2. Cyanosis 3. Spina Bifida 4. Other Malformations -	1 9 1 2 1 3	2 4	2 4	-	-	-	-	-
4. Alco- (a Del. Tremens holism (b Intemperance ORDER 4.	1.8	2		Ξ	2	2	_	-	5. Teething	11.6	8	8	_	_	_	-	-
1. Thrush 2. Worms, &c	3:3	4 2	4	-	-	-	-	-	ORDER 2.  1. Paramenia 2. Childbirth (see Puerperal)	'1		-	-	-	-		-
CONSTITUTIONAL DI	s.					_			Fever)	6.3	3			2	1	_	-
ORDER 1. 1. Gout 2. Dropsy	1:1	4 12	- 3	-	- 1	3 2	16		ORDER 3.	42.7	44	_	-	-	_	15	29
3. Cancer 4. Cancrum Oris (Noma)	- 25°3 - 3	33	~	-	3 -	16	12	2 - 2	ORDER 4.  1. Atrophy and Debility -	61.3	64	56	-	-	1	7	-
6. Mortification ORDER 2.	3.0	7			1	-	4	2	V. VIOLENT DEATHS, &c.					-			
1. Scrofula 2. Tabes Mesenterica - 3. Phthisis	7.9 - 20.1 - 157.5	23 166	22 3	1 1 18	82	55	7	- 1	ORDER 1. (ACCIDENT OF NEGLIGENCE.)								ш
4. Hydrocephalus -	- 24.7	18	15	2	ĩ	-		Ė	1. Fractures and Contusions 2. Wounds	14.6	17 1	1	1	4	7	1 1	-
III. LOCAL DISEASES. ORDER 1.									3. Burns and Scalds 4. Poison 5. Drowning	5.1 .8 4.5	6 2 4	4 1 1	1 2	1	1 -	1	-
1. Cephalitis 2. Apoplexy 3. Paralysis	- 11.0 - 30.8 - 25.3	10 38 25	9	1	5 4	13	9	4 4	6. Suffocation 7. Otherwise	7·0 2·3	6 -	5 ~	1	-	-	-	-
5. Chorea	1.8	3 -		Ē	-	-	3		ORDER 3.								
6. Epilepsy 7. Convulsions 8. Brain Disease, &c	7°4 - 46°8 - 17°0	4 42 13	1 41 1	2 1 1	- 2	1 - 4	- 5	-	(Homicide.)  1. Murder and Manslaughter	1.5	3	2	-	-	1	_	-
ORDER 2.		-		2	1	-	_	Ţ	ORDER 4. (SUICIDE.)								
2. Aneurism 3. Heart Disease, &c	3°3 2°4 55°0	3 2 71	- 1	5	1 15	17	1 29	- 4	1. Wounds {Gunshot - Cut, Stab -	.2 .7 1.4	-	-	-	-	-	~	-
ORDER 3.	5.4	1	1	-	-	-		Ţ	2. Poison	- 7	1	-	-	1	-	=	-
8. Pleurisy	5.4 - 135.8 - 1.8 - 90.8	190 - 81	74 - 53	9 - 4	9 7	27	6	15 - 2	5. Otherwise	1.8	- 1	-	-	-	3	-	=
6. Lung Disease, &c	90°8 - 7°6 - 14°6	6 13	3	2	2	2 2	4	-	ORDER 5. (EXECUTION.)								
ORDER 4.  1 Gastritis  2. Enteritis	2.1	=	-	-	-	-	_		1. Hanging	1	-	_	-	-	-	_	_
2. Enteritis – – – 8. Peritonitis – – 4. Ascites – – – 5. Ulceration of Intestines	5.7 5.6 8.5	3 1 3	2 -	-	- 1	1 1 2	-	-	Violent Deaths (not classed)	•4	1	_	1	-	_	-	-
O. LICITIES	- 2.5	5 2	1	1 -	1	1	1	-	Sudden Deaths (Cause un- ascertained) Causes not specified or ill-	1.9	-	-	-	-	-	-	-
7. Ileus – – – 8. Intussusception –	3*2	3	-	-	-	2	2	-	Causes not specified or ill-	8.0	3	1	-	-	-	2	-
NoteWhere a person	s "fourd	drowne	d" t	he c	orone	ore .	og in	gom	e other cases, do not always succ	and in die	ooverir	or w	aethe	r the	n cau	e is	

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, S during the Week

		88	20				The 1	DEATH	is rea	istere	l in t	he We	ek in		11 66	B	Lig
	Enume-	during	during			-			1				1	1		1	, 1
REGISTRARS' SUB-DISTRICTS.	rated Popu- lation, 1871.	Total Births of the Week.	Total DEATHS of the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enteric (or Typhoid) Fever	Simple con- tinued Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Insti-
LONDON	3,251,804	2143	1400	274	294	61	45	38	4	51	4	36	7	19	46	85	249
West Districts North Districts Central Districts East Districts South Districts	561,189 751,668 333,887 638,928 966,132	303 487 217 468 668	227 298 152 288 435	46 56 30 60 82	49 57 88 54 101	3 21 10 12 15	4 14 3 11 13	6 7 4 7 14	1 - 8	7 18 3 5 18	- 2 1 1	8 7 6	1 2 1 2 1	2 6 2 5 4	5 10 5 14 12	12 17 10 33 13	48 51 29 45 76
West Districts	58702 38082 91683 28661 6662 36030 23378 24419 23278 21359 18700 13020 58043 38470 27640 10453 10279 17555	38 14 53 13 2 20 18 14 11 4 4 32 32 15 2 6 6	19 11 43 11 5 15 8 12 18 6 4 21 16 13 2 7 4 6	4153-51 151 21541 1312	4 -10 8 1 1 3 4 2 2 3 2 1 6 1 8 		1 2	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 1 1 1 1		121	111111111111111111111111111111111111111	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111	11 11 2 - 4 2	2562771587717717
NORTH DISTRICTS.  All Souls Marylebone HH Cavendish Square	28574 15419 26857 21795 26877 21795 88192 283110 29215 1866 5192 29215 1866 68198 97891 115948 9810 6559 28076 50037 8035	15 7 23 22 18 17 11 23 19 24 24 24 15 44 62 87 4 3 20 28 21	16 8 22 6 18 8 9 14 15 15 20 8 24 33 38 11 10 30 7	1-41434541857158	3 1 8 1 2 2 1 2 3 1 4 6 10 11 3 3 1	1 1 3 12 - 8	1 - 3 - 2 - 4 1 - 3	2 1 1 - 2 1	1	1 3 - 1 - 51 - 3 -	111111111111111111111111111111111111111		111111111111111111111111111111111111111	1 2 - 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 2 1 - 2	1 3 1 2 1 2 2 1 - 8	3 3 1 4 1 2 3 5 1 1 8 1 1 6 1 1 6 1 1 1 1 1 1 1 1 1 1 1
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH	17843 19089 16197 111323 9831 9876 10711 20521 13528 9051 18912 16878 16220 12156 18291 13790 10732 14484 13839 4389 4389 4744 5694 5694 5694 5694 5694 5694 5694 56	9 7 11 9 7 7 5 3 8 9 7 4 4 21 11 11 11 15 18 8 23 3 12 7 7 4 4 17 7 3 4 4 2 2 1 1 2 - 5	9955888861538109466119544 2271344 -22212	211 212 2 2 2 3 8 8 1 1 8 1 1 1	1 3 2 2 2 1 1 1 6 6 2 4 2 7 1 1 1 2 2 7 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1		1	111111111111111111111111111111111111111	1 2 1 1 3 3			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 5 1 4 4

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H-Hospital;

L-Lunatic Asylum;

W-A Workhouse not belonging to the district in which it is situated.

<sup>†</sup> Officials of Public Institutions are not included. \* The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

# ulation, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 375

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district aturday, 4th November 1871.

aturday, 4th November 1871.																	
_		during	during				The D	EATH	s regis	tered	in the		k incl	ude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total BIRTHS du the Week.	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26944 24158 19257	7 14 22 15 17 10	3 8 13 15 20 8	1 - 5 2	47253	111111	- 2 -	1 1 1 1	111.111	111111	1 1 1 1 1	1 2 1	111111		- 2	- 210345	3 4 - 6
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	28 37 20 13	11 25 6 9	3 6 1 2	6 - 2	ī	2 1 -	1111	1111	1111	1111		1111	1111	1111	1111	7 -
Artillery Whitechapel	6651 15844 15550 11434 7323 10881 9149	8 12 21 8 5 10 6	2 6 12 2 13 4 2	1 2 2 - 2 1	1 8 - 2	1 7 7 7	- 1 -	1	1111111	111111	1111111	- - - 1	111111	111111	1 - 4	3 - 4 2 -	6 10 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	16 6	15 8	3 4 1	4 3	111	ī	1 -	-			= .	ī -	1	111	- 2 1	Ē
Shadwell $W$ Ratcliff $WH$ Limehouse $W$	11623 15930 30025	7 14 20	3 4 7	1	1 2		- 1		- 1	1 1 1	-	1 -		1	1	1 2	Ē
Mile End Old Town West Mile End Old Town East WwH -	38126 55020	20 44	17 23	3 5	3	2 2	-	3	-	1 3	-	1 -	ĩ	1 1	- 1	2	ī
Bow WwHLt	67777 48500	64 29	34 14	10 4	2 1	4	8	-	-	ĩ	1 -	-	-	1	1	2 -	8 -
SOUTH DISTRICTS.  Christchurch Southwark W	14547 15667 20430 16694 18959 28673 48232 16786	10 15 11 4 17 21 38 6	7 11 8 5 8 8 19 7	1 3 - 2 2 5	3 2 1 1 1 8	11111111	- 2 1 1	ī - 1	1111111	1 - 1 - 1 - 1		11111111	1117.	1111111	11111111	1	2 - 1 - 2 -
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W	4157 10595 16785 15707 47921 25873	2 10 14 8 52 11	19 6 13 9 24 13	1 2 3 1 6 4	3 2 3 2	111117	2 3 -	- 3	1 - 1 -	- 1 3 1		1 1	11111	1	3 1	3 1	17 3 - 2 - 2
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 35831 41284 31213 3 431 12534	7 14 15 33 29 14 22 7	8 5 17 21 14 16 24 1	3 3 4 5 - 3 3	1 2 5 2 6 3	- - 1 1 11	1	1 3 1	1111111	1 1 1	1111111	1 1	1111111	11111111	1131111	8	7 5 - 8 -
Clapham HL Battersea W Wandsworth HL Streatham	27348 53988 19797 9438 14479	16 44 18 4 6	3 26 11 3 7	- 8 1 - -	3 4 2 6	1 - 1	- 1 -	1	1111	- - -		-	ī -	11111	1	1	4 4
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4941 31251 49159 33851	2 16 87 17	11 19 10	- 5 8	- 1 4 5		1	1	- 1	1 2 -		-	-	1111	1	1 -	1 8 1 1
St. Paul Deptford	53696 6487 21098 19320	38 2 12 10	17 2 10 16	4 - - 4	3 1 3 5	1111	1 -		11711	1 	1111	- - 1		1111	- 1 -	1111	10
Eltham	4528 16430 11508 19016	2 9 4 12	1 8 5 6	ī	1 2 3 2	1111	-	2	7111	1111	1111		1111	11,11	1111	1111	3 -
Charlton H -	9503 17/29 18319 13 28 15290	5 13 11 16 19	1 5 8 3 5	1 2 1	- 1 2	11111	11111	11111	11.11	11111	11111	- - 1	1111	1 - 1 -	11111	11111	- - 1

The following are Outlying Workhouses (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.
The Strand - , , Tottenham-court sub-district.
London City - , , , Islington East.
Do. do. - , , , Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district.

London City , , , , , Mile End Old Town Eastern sub-dist. and

Stepney - , , , , Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 4th November, 1871. Under the Superintendence of the Astronomer Royal.]

The reading of the barometer decreased from 29.54 in. at the beginning of the week to 29.54 in. by 10h. P.M. on the 29th of October; increased to 29.95 in. by 9h. P.M. on the 2d of November; decreased to 29.88 in. by 3h. P.M. on the 3d; and was 29.94 in. at the end of the the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the fibermometrical observations taken at the Royal Observations, Greenwich, in the 50 years ending 1863, December 31. \* In reading the 17th column it will be borne in mind that his read "higher," and "boner," than the average. The results of all the meteorological observations are to be understood as daily values by the application of corrections deduced by James Glaisher, F.R.S., from the years' observations ending 1845, December 31.—58e Phis. Trans., part. 1, 1845. The mean daily dew point and degree of humding 1845, and those mean daily values of the dry and wet bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, pend at 91. A.M.; noon, 8h. P.M.; and 9h. P.M., as well The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of The height of the cistern of the barometer is considered to be 159 feet above the mean vel of the sea. The readings of the barometer are considered to be coincident with those noon; Sh. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry thermometer, and the wet thermometer, observed at these times are converted into mean as the results deduced from the maximum and minimum thermometers, as determined by The readings of these instruments are registered under the superintendence of the resident inspector on board the ship, by permission of Lieut. Col. Henderson, R.E., C.B., Commissioner of Metropolitan Police. ozone. 26 The observations are taken at 9h. A.M. above the in a Gauge Inches Sum 0.04 0.00 00.0 00.0 0.01 of Air Amount of Horizontal 182 406 170 Sum 1766 24 of 24 Obs. Pressure on square foot. 0.0 1.0 0.5 0.1 0.1 23 As deduced from Anemometers. Least, 0.0 0.0 0.0 0.0 0.0 : 22 Greatlbs. 2.9 1.2 6.6 10.1 5.5 3.6 applying to the civil day, or from midnight to midnight. est. 21 of the Royal Society's flint glass standard barometer. Usler's. SE. & ESE. E. & NE. ENE. & 1 NOTES. E. & ENE E. by S. & ENE. ESE. & E. ENE. P. M. General Direction. ENE. & ENE. ENE. E. & ENE. ENE. NE. A.M. 61 ष about 2 feet below the surface. Degree of Hu-midity, tion being repre-sented Satura-18 82 95 80 the same day son an average bot 50 years.\* perature of the day and mean temmean tem-6.0 1 +1 1 + 5.6 Between Dew Point 9.7 16 Air Temperature. Cemperature 7.5 12.0 7.4 8.0 8.8 2.9 est. 15 The clouds were very variable throughout. A little thin rain fall occasionally. Lightning the day. 5.7 Mean 2.2 daily value. Rain fell between 11h. A.M. and 3h. P.M. occasionally thinly 14 time during In the Water of the Thames at Greenwich, by self-registering 49.8 48.0 49.3 49.8 9.14 48.2 47.7 misty rain fell at night. Highest, Lowest, 13 ATMOSPHERE. Thin rain fell occasionally. 50.3 51.9 51.6 51.4 50.4 51.3 12 fell between 3h. and 4h. A.M., and Generally cloudy. to A very fine day. Light clouds prevalent. The clouds varied rapidly from time Very fine. Windy. 37.0 41.2 41.0 41.0 40.4 meter. 36.7 11 a self-READINGS OF THERMOMETERS. bulb in vacuo, I placed on the Grass. Thermo-Thin AND 84.7 57.6 78.9 73.5 85.3 2.17 73.0 Overcast throughout. SKY Generally overcast. Generally overcast. 15.2 49.4 38.9 5.9 48.9 47.3 45.8 41.3 38.7 9 7 6 41. 44.7 47.0 47.3 49.3 45.8 Mean œ Rain f 9.5 0.8 in 57.8 42.6 1 52.3 46.4 55.0 45.8 Positive, with weak tension occamorning 41.8 44.1 45.2 44.4 est. 9 No electricity was shown. 6.64 48.5 50.2 51.0 52.1 Weak positive at 9h. P.M. Occasional weak positive. High-BLECTRICITY 10 in the Weak positive at night. 109.67 29-809 29.407 29.612 806.67 724 daily and reduced to 32 degr. Fabren heit). rected Weak positive 50. 29. Dec. N. MOON. of 8 - 01 3 4 30 31 31 No. of Columns. MONTH AND DAY. 00 53 30 31 NOVEMBER. OCTOBER. WEDNESDAY WEDNESDAY THURSDAY MEANS DATE. OCTOBER. ATURDAY LURSDAY TUESDAY MONDAY SUNDAY MONDAY SUNDAY FRIDAY

F

# WEEKLY RETURN

### AND DEATHS IN LONDON NINETEEN OTHER LARGE TOWNS OF THE UNITED KINCDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANEZE.C.

No. 45. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, NOVEMBER 11. [Price 12.

General Register Office, Somerset House, 13th November 1871.

During the week ending Saturday the 11th instant, 4960 births and 3255 deaths were registered in LONDON and NINETEEN other LARGE CITIES and TOWNS of the United Kingdom. The aggregate mortality last week in these towns was at the

rate of 24 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, ranged in topographical order, were as follow:—London 22 per 1000; Portsmouth 17, Norwich 25, Bristol 22, Wolverhampton 36, Birmingham 20, Leicester 21, Nottingham 25, Liverpool 27, Manchester 25, Salford 27, Bradford 19, Leeds 21, Sheffield 29, Hull 27, Sunderland 36, and Newcastle-upon-Tyne 25. The fatal cases of small-pox in these seventeen towns, which in the three previous weeks had been 135, 144, and 177, declined last week to 153; of these, 54 occurred in London, 18 in Sheffield, 14 in Wolverhampton, 13 in Norwich, 11 each in Newcastle-upon-Tyne and Sunderland, 8 in Salford, 6 in Manchester, 5 in Nottingham, 4 in Hull, and 2 each in Liverpool, Birmingham, Bristol, and Leeds. The annual death-rate from small-pox last week was equal to 11 per 1000 in Wolverhampton, 8 in Norwich, 6 in Sunderland, 4 each in Sheffield and Newcastle-upon-Tyne, 3 each in Salford and Nottingham, and was less than one per 1000 in both London and Manchester.

With reference to the high rate of mortality which has recently prevailed in the borough of Sunderland, the registrar of the East sub-district reports that fever "is prevailing to a fearful extent in Sunderland parish." This is attributed to the overcrowding which has partly resulted from several streets having been pulled down for sanitary purposes, in spite of which the population of the parish is nearly as large as formerly; three families now in some cases occupy three rooms, which formerly were rented by one family. The registrar recently visited a house in Vine Street to register two births which had occurred in the two attics of a three-storied house, each occupied by a family; he states that "the stench issuing from them on to the top landing was almost suffocating; fever was raging in both the rooms."

In Edinburgh the annual rate of mortality from all causes last week was 29 per 1000 persons living, in Glasgow 28 per 1000, and in Dublin 23.

In Paris 736 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 21 per 1000 of the estimated population. In Brussels 104 deaths occurred in the week ending the 4th, and the annual deathrate was 29 per 1000. In Berlin during the week ending the 9th, 561 deaths were recorded (of which 142 were fatal cases of small-pox), showing an annual rate of 33 per 1000. In Vienna the 318 deaths in the week ending the 4th gave an annual rate of 27 per 1000. In Rome 173 deaths were registered in the week ending the 29th ultimo, and the annual death-rate was 40 per 1000.

In the City of New York 441 deaths were registered in the week ending

the 21st ultimo, and the equivalent annual rate of mortality was 24 per 1000.

In Bombay the deaths registered during the week ending the 17th ultimo were 285, and the mortality was at the annual rate of 18 per 1000. In Madras the 255 deaths in the week ending 29th September showed an annual death-rate equal o 31 per 1000 of the population.

In London 2206 births and 1365 deaths were registered last week. After naking due allowance for increase of population, the births were 80, and the deaths 73, below the average numbers in the corresponding week of the last ten years.

The 1365 deaths in London last week included 54 from small-pox, 42 from neasles, 32 from scarlet fever, 5 from diphtheria, 42 from whooping-cough, 45 from different forms of fever (of which 6 were certified as typhus, 32 as enteric r typhoid, and 7 as simple continued fever), and 21 from diarrhea; thus to he seven principal diseases of the zymotic class 241 deaths were referred last veek, against 243 and 265 in the two preceding weeks. The fatal cases of smalloox, measles, scarlet fever, whooping-cough, and fever, each showed a decline upon

[45.]

those in the previous week. Measles showed a fatal prevalence in Kensing and Shoreditch; the deaths from scarlet fever were excessive in Bermonds Brixton, and Putney; the fatal cases of whooping-cough were numerous in Marylebone, Hackney, and Lambeth; and those of enteric fever in Westminster.

The deaths referred to small-pox in London, which in the three previous weeks had been 53, 61, and 61, declined again last week to 54, which, however, exceeded by 36 the corrected average number in the corresponding week of the ten years 1861-70. In the three small-pox hospitals at Hampstead, Homerton, and Brixton, 22 deaths were recorded last week, against 22 and 19 in the two preceding weeks. The Hampstead Hospital Committee reported to the Metropolitan Asylum Board on Saturday last that the number of fresh cases admitted during the past fortnight had exceeded by 80 per cent. those in the preceding two weeks. The fatal cases returned last week showed the largest excess in Hackney and St. George Camberwell.

The deaths referred in London to bronchitis, pneumonia, and phthisis, which in the four previous weeks had steadily increased from 315 to 437, further rose last week to 447; the fatal cases of bronchitis and phthisis had declined, but those of pneumonia, which had been 80, 84, and 81 in the three previous weeks, rose last

week to 105.

To different forms of violence 32 deaths were referred last week; of these, 23 were the result of accident or negligence, including 16 from fractures and contusions, 3 from suffocation, and one each from burns and drowning. Two deaths of adults, and one of a child aged 2 years, resulted from being run over in the streets. Seven cases of suicide, and one of infanticide, were registered during the week; three of the suicides were effected by cutting the throat.

In the large Public Institutions of the Metropolis 228 deaths were recorded last week, or 17 per cent. of the total deaths; of these 105 occurred in Workhouses

and 112 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.57 in.; the highest reading was 29.97 in. on Sunday morning, and the lowest 29.29 in. on Wednesday morning. The mean temperature of the air was 39°·2, or 5°·7 below the average temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was below the average on each day of the week, the deficiency ranging from 1° 9 on both Tuesday and Wednesday, to 9° 7 on Saturday, when the mean temperature was only 34° 4. The highest day temperature in the shade was 50°0 on Wednesday; the lowest night temperature 26° 4 on Saturday; the entire range of temperature in the week was, therefore, 23° 6. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 74°·7 on Sunday. The difference between the mean dew-point temperature and air temperature averaged 4°.4. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 46° 6 last week. The mean degree of humidity of the air was 84, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air in the week averaged 8 miles per hour. Rain fell on Wednesday morning, but only to the amount of '03 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 37°·5 in Leicester, to 41°·2 in Liverpool; the lowest recorded night temperature was 24°·2 in Salford, and the highest day temperature in the shade 55°·4 in Portsmouth. No rain was measured last week in Portsmouth, and very little in Norwich, Wolverhampton, or Birmingham; the quantity measured in the other towns ranged from ·14 of an inch in Nottingham, to ·43

in Salford.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 4°·0, or 3°·2 below the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 10°·0, the lowest night temperature showed 3°·1 of frost, and the highest temperature in the sun was 23°·7. The wind blew at the rate of 13 kilometres an hour, and the rain-fall measured ·08 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 187,067 cubic metres, and at Barking 234,980 cubic metres, equiva-

lent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FORTY-FIFTH Week of Ten previous Years.

TOTAL Births  Males  Females .	1861 1710 840 870	1862 1832 921 911	1863 1963 1011 952	1864 1994 1003 991	2171 1072 1099	1866 2212 1132 1080	1867 	1868 2145 1063 1082	2271 1160 1111	2216 1174 1042	Weekly Average in 10 Years. 2078 · 4 1056 · 3 1022 · 1	2266 1091 1115
Total Deaths Males Females	1251	1307	1270	1586	1464	1361	1195	1387	1689	1463	1397·8	1365
	653	617	659	783	771	679	643	716	841	782	714·4	705
	598	690	611	803	693	682	552	671	848	686	683·4	660

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE of RESULTS in the Last THIRTEEN WEEKS.

										-			_
	Aug.	Aug.	Sept.	Sept.	Sept.	Sept.	Sept.	Oct.	Oct. 14.	Oct. 21.	Oct. 28.	Nov.	Nov. 11.
FOTAL Deaths	1715	1682	1485	1422	1422	1411	1390	1283	1275	1291	1364	1400	1365
Deaths under 5 years of age - Deaths 5—20	960 107	967 100	824 86	767 94	717 112	686 97	590 107	539 121	497 103	492 100	527 115	552 129	571 106
Deaths 20—10	187 204 217 40	194 197 180 44	178 184 178 35	189 161 160 51	178 223 157 35	201 203 181 43	206 245 202 40	178 212 183 48	202 203 221 49	197 206 238 58	213 230 236 43	201 224 230 64	206 209 221 52
Deaths from Smallpox Measles	80	82 20	78 19	81 21	57 16	89	51	72 25	61 34	53 34	61	61	54 42
" , Scarlet Fever - " Diphtheria -	21 4	24 6	24	26	32 8	27	36 6	38 5	29 9	40	31 6	38 4	32
" " Whooping-cough " " Typhus fever – " Enteric (or Ty-)	30	25	32 7	26 8	32 11	3	30 8	36 4	27 6	23 11	40	51 4	6
phoid) fever - \( \)  " Simple Cont <sup>d</sup> fever		7	15	11	25 11	12	23	21	12	15 9	23 10	36 7	32
" " Diarrhœa - " Simple Cholera -	425	487 28	353 20	293 24	268 15	205	153	80	69	46	32 1	19 —	21
,, Phthisis, Bronchitis, Pneumonia, Heart Disease -	138 53 34 67	145 53 30 60	164 59 37 61	153 47 38 49	146 58 39 62	139 62 37 54	166 83 39 71	143 84 56 60	140 113 62 73	147 120 80 58	157 179 84 - 74	166 190 81 71	162 180 105 61
Mean Temperature of the Air	67.1	63.0	64.0	60.5	62.6	53.6	50.2	51.9	45.5	53·5	46.9	47.3	39.2
Mean Temperature of the Water of the Thames -	69.6	70.5	64.5	64.6	63 • 4	60.1	56.2	53.7	52.7	51.5	51.6	49.8	46.6
Humidity of the Air	69	76	71	78	71	70	88	80	60	91	60	81	84
Rain-fall in inches	0.69	0.09	0.02	0.66	0.00	0.10	3.34	0.77	0.00	Q·55	0.01	0.04	0.03

#### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tynes



Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 11th day of November 1871, in the following large Towns.

CITIES  AND  BOROUGHS.  (Municipal Boundaries for all except LONDON.)	Area in Acres.	POPULATION estimated to the middle of the Year 1871.**	Persons to an Acre. (1871.)	BIRTHS registered during the Week ending 11th Nov. 1871.	DEATHS registered during the Week ending 11th Nov.		Lowest during the Week.		TEMPERATURE OF THE AIR. (CENTIGRADE.)  Weekly Mean of the Daily Mean Values.	RAIN In Inches.	FAI C m
Total of 20 Towns in the United	213,281	7,204,001	33.8	4960	3255	55.4	24.2	39.4	4.11	0.50	0
KINGDOM)	77.007	3,263,872	41.8	2206	1365	50.0	26*4	39.2	4.00	0.03	1
London	77,997	113,450	11.9	76	36	55.4	28.8	40.9	4.94	0.00	1
PORTSMOUTH .	9,513 7,472	80,533	10.8	47	38	47.5	30.0	38.6	3.66	0.03	1
Norwich -	4,688	183,298	39*1	152	76				_		
BRISTOL WOLVERHAMPTON -	3,387	68,476	20.2	43	47	49.0	27.4	38*4	3.55	0.05	
WOLVERHASIETON						40.0	30.3	39.0	3.89	0.03	10
BIRMINGHAM	7,831	344,980	44'1	295	133	49.8	27.7	37.5	3.06	0 03	
LEICESTER	3,200	95,882	30.0	64	38	53.3	29.4	40.0	4.44	0.14	
NOTTINGHAM	1,996	86,929	43.6	54	41	49.3	35.0	40 0	5.11	0.34	
LIVERPOOL	5,108	494,649	96.8	364	254	49.0	29.0	39.7	4.28	0.40	
MANCHESTER	4,486	356,099	79.4	241	168	49 0					
SALFORD	5,172	125,422	34.3	81	65	49.5	24.2	39.0	3.89	0.43	
BRADFORD	6,590	146,987	22.3	143	54	-	-	-	_	-	
LEEDS	21,572	260,657	12.1	200	105	49.0	32.0	40.8	4.88	0.30	
SHEFFIELD	22,830	241,507	10.6	187	133	49.5	29.0	38.7	3.72	0.38	
HULL	3,562	122,266	34.3	81	63	51.0	28.0	40.2	4.72	0.39	-
	3,306	98,797	29.9	50	69	_	- manipal		_	1 -	
SUNDERLAND	1	128,677	24.1	115	61	48.0	33.0	39.0	3.89	0.33	
NEWCASTLE-ON-TYNE	4,427	201,728	45.6	123	112	46.7	31.0	38.3	3.20	0.10	
EDINBURGH GLASGOW	5,063	479,227	94.7	280	258	-	-	_	-	-	
DUBLIN	9,745	310,565	31.9	158	139	50.0	26.0	38.8	3.77	0.10	1
DORLIN .	0,140	010,000	01.0					1	1		

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by at 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs sha decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Vending Saturday the 11th day of November 1871.

	ANNUAL				The	DEAT	us regi	stered i	n the V	Veek in	clude		
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhea.	Violence.	Inquest Cases.
Total of 17 Towns -	23	2746	691	499	153	58	75	14	75	109	70	62	131
LONDON	22	1365	332	273	54	42	.32	5	42	45	.21	32	67
PORTSMOUTH	17	36	8	11	1	2		-	-	2	-	1	2
Norwich	25	38	8 -	11	13	-		-	-	-	-	1	3
BRISTOL	22	76	18	12	2	1	3	-	-	5	9	2	8
WOLVERHAMPTON -	36	47	12	6	14	1	1	1	2	1	1	-	-
BIRMINGHAM	20	133	43	21	2	4	1	2	2	3	2	4	7 :
LEICESTER	21	38	10	. 7	- :	1 :	1-		-	- 1	4	tile	. 3
NOTTINGHAM	25	41	12	4	5	1	-		-	- 1			1
LIVERPOOL	27	254	69	51	2	-	9	4	9	10	15	11	20
MANCHESTER	25	168	44	18	6	-	8	1	7	10	6	3	6
SALFORD	27	65	13	12	8	_	2	-	4	2	2	2	4
BRADFORD	19	54	20	5	-	-	1	-	8	4	2	2 .	2
Tapping	21	105	22	25	2	1	2	_	1	7	-1	2	5
Tippns	21 29	133	37	16	18	4	6	1	i	7	2	Į.	1
SHEFFIELD	29	63	17	7	4		3	-	2	3	-		1 .
SUNDERLAND -	36	69	9	12	11	2	6.	1	2	8	1	2 /	2
NEWCASTLE-ON-TYNE -	25	61	17	8	11	di	2007			1	4	-	- 4
DUBLIN	23	139	24	24	9	1	3	. 1	2	6	6	3	5

TABLE 5 .- DEATHS in LONDON Registered in the FORTY-FIFTH Week of the Year 1871.

TABLE 5.—	DEATH	211 2	LIUN	DOI	, T	egis	tere	Q I	the FORTY-FIFTH Week of the Year 1871.		
	he eek 31-70.	Sati	In thurday	he W	ven	endi ber	ng 11, 18	71.	In the Week et	ding r 11, 18	71.
	es of t fth W ars 18		Deat		Per Age		of		Deaths of Personal the Ages	ns of	
CAUSES OF DEATH.	Averages of the Forty-fifth Week the 10 years 1861-70	ALL AGES.		der 0.	er 40.	er 60.	er 80.	bus	CAUSES OF DEATH.  The Week et Saturday, November 19 19 19 19 19 19 19 19 19 19 19 19 19	er 80.	and
	in the	Mean Tem.	•		and under	nd under	nd under	Years upwards.		and under	0 Years
Mean Temperature -	42.9	89.5	0-6.	5-20.	20 au	40 and	eo and	dn	Mean Temperature - 42.9 39.2 1 2 8	60 and	80 J
ALL CAUSES	1397.8	1365	571	106	206	209	221	52	9. Stricture of Intestines - 7 2 - 1 0. Fistula - 7 5 - 7	- 1 1 1	-
SPECIFIED CAUSES  I, ZYMOTIC DISEASES.	1385.6	1359	569	106	206	208	218	52	1. Stomach Disease, &c 6 9 4 1 1 - 2 2. Pancreas Disease, &c 3 6 4 3 6 4 3 6 4 3 6 4	8 1	-
ORDER 1. 1. Small-pox	16:0	54	22	12	16	8	1		4. Jaundice 3.9 2 1 1 - 1 5. Liver Disease, &c 15.9 17 1 1 - 1	0 6	-
3. Scarlet Fever (Scarlatina) 4. Diphtheria	32·1 102·4 10·6	54 42 32 5 2	39 23 1	9 3 -	1	-	1111	1 1 1 1	ORDER 5.  1. Nephritis		-
5. Quinsy	1.2 13.1 35.0	9 42 6	1 9 40	- 9	- 2	-	-		3. Bright's Disease (Nephria) 8'1 11 2 - 2 4. Diabetes 1 1'8 4 1	6 1 2 1	-
- Entericor Typhoid Fever - Simple continued Fever - 9. Erysipelas	52·5 } 8·7	32 7 8	2 8 8	3 17 2 1	9 1 1	1 3 -	1 1 2	11111	5. Calculus (Stone) 1.2 1 6. Cystitis 7.9 7 7 2	1 4	1111
10. Puerperal Fever (Metria) 11. Carbunele 12. Influenza	7·2 1·4	6 2			6	1	1 1 1 1	- + -	ORDER 6. 1. Ovarian Dropsy 1.1 1 2. Uterus Disease, &c 3.6 4 1	3 -	E
13. Dysentery	22°7 8°0	1 21 2	15 1	1.1	100	1	1 1	ī	ORDER 7.		
16. Ague	1.1 10.2	14	1	- 8	- 5	1	- 2	1111	2. Joint Disease, &c 4.5 3 - 1 1 ORDER 8.		1
19. Other Zymotic Diseases - ORDER 2. 1. Syphilis	7.3	-1	5	=		-			1. Phlegmon 3.0 4 1 - 1 2. Ulcer 1.0 1 1 3. Skin Disease, &c 1.5 1 1	- 2	=
2. Stricture of Urethra - 3. Hydrophobia	.2	2 -		E	-	1	1	1 1 1 1	IV. DEVELOPMENTAL DISEASES.		ī
ORDER 3.	7	-	-	-	-	-	-	-	ORDER 1.	-	
2. Want of Breast-milk 3. Purpura and Scurvy 4. Alco- \( \rho_0 \) a Del. Tremens holism \( b \) Intemperance	8·9 2·1 1·7 1·4	6 5 2	6 2 -	1.	2	ī	11.11		2. Cyanosis 1.9 3. Spina Bifida 1.0 1 1	= =	=
ORDER 4.	2.7	3	8	-	-	-	_	-	ORDER 2.		-
2. Worms, &c II. CONSTITUTIONAL DIS.		-	-	-		-	-		1. Paramenia 3 11 peral Fever) 11	2 _	_
ORDER 1. 1. Gout	1'4 11'8	3 12	3	ī	- 2	2	1 3	2	ORDER 3. 1. Old Age 46.5 42	- 16	26
8. Cancer	30.0	25 - 4	111		4	16	3	1	ORDER 4.  1. Atrophy and Debility - 56.4 54 48	- 6	-
ORDER 2. 1. Scrofula	9'1	4 19	3 17	- 2	-	-	1		7. VIOLENT DEATHS, &c. ORDER 1.		
3. Phthisis 4. Hydrocephalus	156·4 24·6	162 25	7 24	18	84 1	47	5	1	ACCIDENT OF NEGLIGENCE.)  1. Fractures and Contusions 17.8 16 1 1 2 2 2 Wounds	5 7	ŀ
III. LOCAL DISEASES. ORDER 1.									3. Burns and Scalds - 4.5 1.3 1 1 4. Poison 1.3		11111
1. Cephalitis	10.2 30.2 21.9	6 38 26	4	1 -	4	10 9	17 12	2	5. Drowning 3°2   1   1     6. Suffocation 2°4   2   2		E
6. Epilepsy	1.9 .2 5.8	1 5		-	1	1 - 2	2 - 2	ī -	ORDER 3. (HOMICIDE.)		
8. Brain Disease, &c ORDER 2.	50.8	48 11	48 2	_	3	3	3	-	1. Murder and Manslaughter 1.4 1 1 ORDER 4.		E
1. Pericarditis	2°4 2°3 61°3	5 4 61	1	3 - 4		1 2 19	26	- 2	(SUICIDE.)	īī	-
1. Laryngitis	6°3 162°6	5 180	2 92	1 2	1 5	1 21	47	13	2. Poison 1	1 -	
3. Pieurisy	102.0	1 105 7	74	5	7	10	7	2			
6. Lung Disease, &c ORDER 4. 1. Gastritis	2.1	19	7	ī	1	. 5	6 5	-	(EXECUTION.)		-
2. Enteritis	5.0 4.6 2.0	5 5 4	1	3 1 1	1	3	1	-	Violent Deaths (not classed) '3 1	_	Ŀ
4. Ascites 5. Ulceration of Intestines 6. Hernia 7. Ileus	3·2 3·1 2·9	5 4 2 2 4		1	1	1 2	1 1 1 1	-	Sudden Deaths (Cause un-) ascertained)	1	-
8. Intussusception	2.9	-	-	-	-	-	-	-	defined 10.0   5   2	2	-

TABLE 6. LONDON .- POPULATION, BIRTHS, DEATHS from ALL CAUSES, and from SMALL-POX, MEASLES, SCARLET

											dur	ing	the `	Weel	k en	ding
	Enume- guing	during				The :	DEAT	HS reg	gistere	d in	the W	eek i	nclude			
REGISTRARS' SUB-DISTRICTS.	Popu- lation.	Week. DEATHS	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	3,251,804 22	206 1365	332	273	54	42	32	5.	42	6	32	7	21	32	67	228
WEST DISTRICTS NOBTH DISTRICTS	751,668 49 333,887 29 638,928 49	352         212           486         295           209         152           461         278           398         433	37 56 35 78 131	42 70 32 46 83	25 - 8 17	6 8 3 16 9	3 7 2 3 17	2 1 1 - 1	10 10 4 8 10	1 1 2	10 8 4 6 4	5 2	4 6 2 5 4	5 9 4 8 6	11 18 9 13 16	41 72 25 38 52
West Districts.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL Brompton H - St. Peter Hammersmith - St. Pater Hammersmith H - Fulham WLLLL - Chelsea South HH - Chelsea North-west HWw - Chelsea North-west HWw - Chelsea North-west HWw - Chelsea North-west HWW - St. John Westminster HHH - St. John Westminster WWHH - St. James's Square Golden Square W - Berwick-street - St. Anne Soho HH - St. Large Square Golden Square W - Berwick-street - St. Anne Soho HH - St. James Square Golden Square W - Berwick-street - St. Anne Soho HH - St. Date Shame Soho HH - St. James Soho HH - St. Marganet W - St. Anne Soho HH - St. Marganet Square W - St. Anne Soho HH - St. Marganet Square W - St. Anne Soho HH - St. Marganet Square W - St. Anne Soho HH - St. Marganet Shame	360/80 22 23378 22 26419 1. 23278 1. 21389 1: 18700 13020 58043 38470 2 27640 1: 10453 12855 1.	1 10 4 40 12 11 4 1	8 -21 -3 - 4 1 2 -4 5 5 -11 -	4 12 3 2 2 4 1 11 16 1	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	114111111111111111111111111111111111111			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1122		1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 - 1 - 2 1 1 - 1 1	3 44 22 1 4 3 11 19 2
NORTH DISTRICTS.  All Sonls Marylebone HH Rectory Marylebone WH	10419 26387 21795 21795 33892 233110 22271 32271 32271 22216 22216 22216 23562 218066 216066 07801 65198 6099 9810 6599	17	212251 3 122136 79 1 1252	1 11 1 4 4 6 3 1 2 7 10 - - 2 5 2	12 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 2 2 2 2	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5	1	1 1 3 5 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1		111111111111111111111111111111111111111	1 1 3 1 2	1 1 9 2 4	11 12 13 7 12 2 7 2 7
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH	19089 1 16497 11326 9831 9376 10711 1 20521 1 18528 9051 18912 1 18912 1 1878 16220 1	9 4 11 15 7 7 5 4 1 5 5 5 5 5 5 5 10 4 12 9 8 11 9 8 11 9 9 5 10 8 8 11 9 8 10 8 11 8 10 8 10 8 11 9 9 5 7 7 5 11 8 10 8 11 9 9 7 5 11 2 9 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 8 11 3 2 9 9 8 12 5 7 7 7 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 7 8 8 12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	122 - 1 1 238824122131 23 111 - 11	232 -1111 2 - 2 -111 - 3			THE PERSON OF TH		1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		111111111111111111111111111111111111111			111 1111 111111111111111111111111111111	1	3 - 1 4 4 2

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W—Workhouse;

H—Hospital;

L—Lunatic Asylum;

w—A Workhouse not belonging to the district in which it is situated.

<sup>†</sup> Officials of Public Institutions are not included. \* The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 11th November 1871.

Saturday, 11th November 1071.		ng	ng				The 1	DEATE	18 reg	istere	d in	the W	reek in	relude			
REGISTRARS' SUB-DISTRICTS.	Enumerated Population. 1871.	Total BIRTHS during the Week.	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
FAST DISTRICTS.	12429 16545 27832 26944 24153 19257	12 13 27 24 19 14	9 11 7 11 14 8	- 2 3 1 4 3	1 3 - 3 2	1	5 - - 8 - 1	111111			11111	- - 2 1	2	1			3 - 1 -
Haekney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	30 23 21 8	11 17 6 7	1 5 2 3	2 -	1 - 2	1 -	ī -	-	1 -	-		1	1111	1111		1111
Artillery Whitechapel Soitalfields	6051 15844 15550 11434 7323 10381 9149	5 6 11 4 3 5 5	1 5 6 8 22 3 4	1 1 2 3 2 1 2	1 1 2 4	ī - - 1							111111	1	111411	1 4 1	16
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	6 15 8	5 12 9	1 6 1	- 3 6	-	-	1 1 1	=	î -	=	- 1	1 - -			111	- 4
Shadwell W	11623 15930 30025	2 8 14	6 7 7	3	1 3 1	1 1 1	- 1	-	-	1 -	=	=	- - -	- 1	1 -	1 -	=
Mile End Old Town West Mile End Old Town East WwH	88126 55020	39 45	16 25	7 8	2	1	ī	1 -	-	2	1 -	1 -	ī	-	-	1 2	4
Bow WwHLt	67777 48500	63 31	25 11	8 3	3	-	2 -	1 -	-	-	-	ī	-	1 -	1	1	6
SOUTH DISTRICTS.  Christchurch Southwark W	14547 15667 20430 16694 18959 28673 48232 16786	5 13 10 13 16 16 49 7	14 9 7 1 12 8 25 9	3 - 2 - 2 5 11 -8	4 1 3 1 4 1 5	1		1 1		1 - 1	11111111	1	1	1	1	1	2 2 1 1 1 - 1 - 1
St. Olave Southwark H St. John Horsleydown W Leather Market St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	1 2 11 7 45 24	12 6 7 9 27 10	1 1 5 4 7 3	3 1 - 3 2		- 2 1	- 3	11111	1	111111	- - 1	111111	2	- - 1	1 1 1	10 2 -
Waterloo-road let H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W Kennington 1st W	14086 18453 19470 35831 41284 31213 35431 12534	12 18 15 35 33 23 26 7	9 6 15 17 16 8 17	6 4 1 6 6 3 4	2 1 3 4 4 2 -	1 1 7 7	2	3	1111111	4	1111111	1	1111111	1111111		- - 2 1 - -	5 - 7 -
Clapham HL Battersea W	27848 53988 19797 19438 14479	16 42 13 6 9	13 27 11 3 1	3 6 - 1 -	1 1 - 1	1 -	2 -	- 1 - 3 -		11111	2 -	11111	11111	11111		11111	3 3 -
Dulwich	4041 31251 42159 33811	6 16 36 23	19 18 18	6 9 5	- 4 5 1	1 1 3	1111		1111	1	1111	1111		1111	- i	1	6
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	37 3 15 15	22 2 9 15	7 1 1 2	3 - 4 5	1111	1 -	1111	1111			1111			1 - 2	1 2 4	9
Eltham	4528 16430 11508 19016	4 6 8 9	3 3 4	- 1 2 1	- 1 1 -	1111	-	1111	1111				-	-	-		-
Charlton H Woolwich Doekyard Woolwich Arsenal H Plumstead, West Plumstead, East W	9503 17229 18319 13028 15290	5 8 9 10 14	2 6 9 3 5	- 6 1	- 1 1 2	11111		- 2 1 -	11111		11111	11111		11111			1111

The following are Outlying Workhouses (indicated in the Tables by w):

The Strand - "Tottenham-court sub-district.

The Strand - "Tottenham-court sub-district.

London City - "Islington East.

Do. do. - ""Hackney sub-district.

Holborn Workhouse is in Hoxton New Town sub-district,

London City ,, (Mile End Old Town Eastern sub-dist, and

Bow sub-district,

Bow sub-district, Stepney - "

† Lunatic Asylums where paupers are admitted.

												M	let	eórc	ologi	cal	Obse
	,				•euo:	zo		:	:	:	:	:	:	:	:	56	
-	RAIN.	Collected in a	Gauge	receiving	is 5 in.	ground.	Inches	3.5	00.00	3	0.03	30.0	33.0	00.00	Sum 0.03	1531	
			Robinson's.	Amount of	Movement	each day.	Miles.	339	153	20	218	213	262	112	Sum 1365	461	
١				refoot	Mean	24 Obs.	lbs.		0.0		0.1	0.1		0.1	:	23	
١		nemom		on sdua		Least.	lbs.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	:	22	
١	WIND.	d from	B.	Pressure on squarefoot	Great-	est.	lbs.	30.0	2.0	7.0	2.5	8.0	9. 50	1.3	1:	12	
		As deduced from Anemometers.	Osler's.	_		P. M.	i	E by S.	ESE.	N.W. R. D.W.	W.	WNW.&WSW.	W. by N.	NNE.	Variable.	20	NOTES.
				General Direction.		A. M.		E. by S.	ESE.	Calm	SW.	W. by S.&W.	W. by S.	W.	Vari	19	
	Degree	midity,	Satura-	being	sented	by 100.		75	15	98	88	80	80	65	84	18	
		Between	perature of	mean tem-	perature of the same day	of 50 years.*	o	- 5.3	9.1 -	6.1	- 1.9	1.5	4.9	1.6 -	1.9 -	17	
I	DIFFERENCE	Point	,	ure.	Longt	:	0	2.0	4.6	0.0	0.5	1.8	2.7	0.0	2.1	16	-
	DIF	Between Dew Point	and	Air Lemperature	Great-	est.	c	9.01	9.5	3.6	9.5	12.0	11.3	5.2	8.00	15	
		Betwee		AIL	Mean	value.	-	7.5	7.5	9.0	3.5	9.9	2.2	1.1	4.4	14	
Comment to who was to all			mes at	ich, by	meters	Lowest	C	47.6	46.6	45.7	45.0	44.7	44.3	42.5	45.2	13	
o rodino		7. 44. 9	the Thames at	Greenwich, by self-registering	Thermometers	Highest.		20.0	49.0	48.0	47.6	47.4	47.0	46.0	47.9	12	HERE
mer me	ERS.	Lowest	Grass, as	a self-	register- ing	-	-	28.3	25.3	32.5	29.5	25.4	23.0	18.3	0.97	=	TMOSE
7	INGS OF THERMOMETERS	Highest in	-		_	placed on the Grass.		74.7	62.0	55.9	61.1	52.6	2.11	9.99	63.3	10	الناواز إ
ı	S OF TE	-	Point.	Mean		value. p		32.9	30.7	42.8	89.9	31.9	32.3	33.3	34.8	0	* KY
	READING							4						34.4	39.5	00	
	R			Range Moan	in	day. value.		9.9 40.	10.8	12.4	13.6	14.3	31.0 16.0 38.0	16.3	13.3	1	-
		1	Dry.			ost.			32.2	87.0	36.4	31.4	31.0	26.4	82.8	9	
					High- Low-	est.	(	45.4	43.0	4.64	20.0	45.7	47.0	42.7 26.4 16.3	46.2	1 10	ITY.
ı	ISARO-	Mean	eading	rected	tuced to	Fahren-	i	936.62	29.645 43.0 32.2 10.8 37.9	29.412 49.4 87.0 12.4 43.4	29.332	29 598 45 7 31 4 14 3 37 5	29.433 47.0 31.0 16.0	29.560	29.567	14	ELECTRICITY.
	MOON.		- 10	Fnases	Moon	-		5 Last Qr. 29.926 45.4 35.5	:	:				roduaror.		0	BL
					AY.	_	~3	5	9	-	α		10	11		0118	
			1271	******	MONTH AND DAY.		NOVEMBER.	SUNDAY	MONDAY	TUESDAY .	Wenneen	THURSDAY	FRIDAY	SATURDAY.	MEANS.	No of Columns	DATE.

as the results deduced from the maximum and minimum thermometers, as determined by the self-explication to the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glasher from the thermometrical observatory Greenwich, in the 90 years confin 1865, December 31, and reading the 17th column it will be borne in mind that + is read "inspirer," and - "Longer," than the average. The results of all the meteorological observations are to be understood as of the Royal Society's flint glass standard barometer. The observations are taken at the A.M.; into Na. and Dh. Pa. The means of the readings of the barometer, the dry thermometer, and the west thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Glaisher, F.R.S., from five The height of the cistern of the barometer is considered to be 159 feet above the mean The readings of the barometer are considered to be coincident with those years observations ending 1845, December 81.—See Phist Trans, part 1, 1848. The mean daily dew point and degree of humidity are deduced from those mean daily values of the dry and web bulb thermometers by Glashers' Hygronerical Tables, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9h. A.M.; noon; 3h. P.M.; and 9h. P.M. as well level of the sea. again and Very calm from 2h. A.M. till fine. fine

Very

morning. the

A little cloud present during generally cloudless after noon.

not

Was

lamp

The insulating

NOVEMBER.

Cloudy from mid-day onwards

Very fine in morning.

Positive, with variable tension.

Overcast throughout.

Foggy.

Weak positive at noon.

Fine in early morning. Bain fell about 8h. A.M., and about 11h, A.M. Cloudy till noon. Cloudiess after 6h. P.M.

noon;

Strong negative about moderate positive at night.

00 8

WEDNESDAY

Hoar frost in the morning. Generally cloudless. Aurora at night. Magnetic perturbations.

Pasitive, with moderate tension

PHURSDAY

Weak positive at night.

10

PRIDAT

The reading of the barometer increased from 29 94in, at the beginning of the week to 29°97 in, by 90 A.M. on the 5th decreased to 29°96 in, by noon on the 9th; remained stationary till after 9b. r.M.; decreased to 29°48 in, by noon on the 9th; remained stationary till after 9b. r.M.; decreased to 29°48 in, by 3h. r.M. on the 10th; and was 29 65 in, by the end of the week. thermometers, suspended from the side of the "Scorpinn" Police Ship, at the depth of about 2 feet bloow the surface. The readings of these instruments are registered under the superintendence of the resident inspector on board the ship, by permission of Lieut-Col. Henderson, R.E., C.B., Commissioner of Metropolitan Police. the temperature of the water of the Thames is ascertained by the use of self-registering applying to the civil day, or from midnight to midnight. Hoar frost in the morning. Small amounts of cloud prevalent generally. Very the. British aurora at night. Magnetic disturbance, Hoar frest at hight. and cloudless in the morning and at night; c'oudy Foggy in morning. A little thin rain fell in the

CONDOR: Printed by GEORGE E. EXREAND WILLIAM SPOTTISWOODE, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Office.

Hoar frost a at mid-day.

Moderate positive in the morning and at night.

SATURDAY . | 11

# WEEKLY RETURN

#### BIRTHS DEATHS LONDO

AND IN NINETEEN OTHER LARGE OF THE UNITED KINCDOM.

By Anthocity of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 46. 1871. Vol. XXXII. WEEK ENDING SATURDAY, NOVEMBER 18. [Price 1d.

General Register Office, Somerset House, 20th November 1871.

During the week ending Saturday the 18th instant, 4779 births and 3747 deaths were registered in LONDON and NINETEEN other LARGE CITIES and TOWNS of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

The annual rates of mortality last week in these towns was at the rate of 27 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the Seventeen English Cities and Towns were as follow:—London 26 per 1000; Portsmouth 23, Norwich 37, Bristol 26, Wolverhampton 43, Birmingham 25, Leicester 22, Nottingham 26, Liverpool 28, Manchester 31, Salford 25, Bradford 26, Leeds 25, Sheffield 29, Hull 22, Sunderland 42, and Newcastle-upon-Tyne 32. The fatal cases of smallpox in these seventeen towns, which in the two previous weeks had been 177 and 153, rose last week to 197, a higher number than has been returned in any week since the middle of August last; of these, 76 occurred in London, 25 in Wolverhampton, 24 in Norwich, 22 in Sheffield, 15 in Newcastle-upon-Tyne, 12 in Sunderland, 7 in Salford, 5 in Manchester, and 4 in Hull. The annual death-rate from small-pox last week was equal to 19 per 1000 persons living in Wolverhampton, 16 in Norwich, 6 each in Newcastle and Sunderland, 5 in Sheffield, 3 in Salford, and scarcely exceeded one per 1000 in London. The epidemic showed a considerably increased fatality last week in Norwich, Wolverhampton, and Sheffield.

In Edinburgh the annual rate of mortality from all causes last week was 25 per

1000 persons living, in Glasgow 30 per 1000, and in Dublin 28.

In Paris 687 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 20 per 1000 of the estimated population. In Brussels 112 deaths occurred in the week ending the 11th, and the annual deathrate was 31 per 1000. In Berlin during the week ending the 16th, 516 deaths were recorded, showing an annual rate of 30 per 1000; 143 were fatal cases of small-pox. In Vienna the 322 deaths in the week ending the 11th, gave an annual rate of 27 per 1000. In Rome 153 deaths were registered in the week ending the 5th, and the annual death-rate was 35 per 1000.

In the City of New York 478 deaths were registered in the week ending

the 28th ultimo, and the equivalent annual rate of mortality was 26 per 1000.

In Bombay the deaths registered during the week ending the 24th ultimo were 285, and the mortality was at the annual rate of 18 per 1000. In Madras the 258 deaths in the week ending the 6th ultimo showed an annual death-rate equal to 31 per 1000 of the population.

In London 2076 Births and 1626 Deaths were registered last week. After making due allowance for increase of population, the births were 176, and the deaths 59, below the average numbers in the corresponding week of the last ten years. The deaths showed an increase of 261 upon those returned in the previous week.

The 1626 deaths in London last week included 76 from small-pox, 49 from measles, 40 from scarlet fever, 6 from diphtheria, 36 from whooping-cough, 39 from different forms of fever (of which 5 were certified as typhus, 27 as enteric or typhoid, and 7 as simple continued fever), and 17 from diarrhea; thus to the seven principal diseases of the zymotic class 263 deaths were referred last week, against 265 and 241 in the two preceding weeks. The fatal cases of small-pox, measles, and scarlet fever, each showed an increase upon the numbers in recent weeks, while those of whooping-cough, fever, and diarrhoa had declined. Measles showed fatal prevalence in Pancras, Islington, Shoreditch, and Bermondsey; scarlet fever in Kensington, Bermondsey, Peckham, and Woolwich; and whooping-cough in Kensington and Westminster.

The deaths referred to small-pox in London, which in the seven previous weeks had ranged between 51 and 72, rose to 76 last week, and showed an increase of 22

[46.]

upon the previous week; so high a number has not been returned since the third week of September, and the excess upon the corrected average number in the corresponding week of the ten years 1861-70 was 59. In the three small-pox hospitals at Hampstead, Islington, and Homerton 26 deaths were recorded last week; none were registered in the Brixton hospital. The fatal cases last week were most numerous in Pancras, Bethnal Green, Limehouse, Poplar, and St. George Camberwell.

The increase of the deaths registered in London last week was most conspicuous in the fatal cases of bronchitis, the natural result of the unseasonably cold weather which has recently prevailed; the deaths referred to this disease, which in the three previous weeks had been 179, 190, and 180, rose last week to 287, exceeding by 81 the corrected average weekly number for the corresponding week of the ten years 1861–70; of the 287 last week, 138 were of children under 5 years of age, and 103 of persons aged 60 years and upwards. The deaths from pneumonia and phthisis

showed but slight variations from the numbers in the previous week.

To different forms of violence 48 deaths were referred last week; of these, 42 were the result of accident or negligence, including 19 from fractures and contusions, 3 from burns and scalds, 3 from drowning, 13 from suffocation, and 2 from poison. All the 13 fatal cases of suffocation were of infants under one year of age. Of the deaths from fractures and contusions, 4 were caused by horses or vehicles in the streets. Four cases of suicide, and one of infanticide, were registered during the week; two each of the suicides were effected by drowning and hanging.

In the large Public Institutions of the Metropolis 262 deaths were recorded last week, or 16 per cent. of the total deaths; of these 133 occurred in Workhouses

and 125 in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.91 in.; the highest reading was 30.19 in. on both Monday and Saturday evenings, and the lowest 29.60 in. on Wednesday morning. The mean temperature of the air was 35°·3, or 7°·6 below the average temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature on Wednesday was 45°·3, and 2°·4 above the average, while a considerable deficiency was shown on each of the other days in the week; on Saturday the mean was only 29°·0, and 13°·0 below the average. The highest day temperature in the shade was 51° 0 on Wednesday, the lowest night temperature 25°0 on Saturday; the entire range of temperature in the week was, therefore, 26° 0. The highest temperature in the sun, as shown by a selfregistering thermometer with a blackened bulb in vacuo, placed on the grass, was 66°8 on Tuesday. The difference between the mean dew-point temperature and air temperature averaged 4° 3. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 42° 1 last week. The mean degree of humidity of the air was 84, complete saturation being represented by 100. The direction of the wind was variable, and the horizontal movement of the air in the week averaged 9 miles per hour. Rain fell on Tuesday, Wednesday, and Thursday, to the amount of '29 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 35°·2 in Hull, to 39°·8 in Liverpool; the lowest recorded night temperature was 22°·0 in Hull, and the highest day temperature in the shade 55°·8 in Portsmouth. Rain was measured last week in each of these towns; more than one inch was measured in both Liverpool and Norwich, while the amount measured in the other towns ranged from 12 of an inch in Bradford to

·84 in Manchester.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 1°·8, or 4°·2 below the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 10°·6, the lowest night temperature showed 3°·9 of frost, and the highest temperature in the sun was 19°·3. The wind blew at the rate of 14 kilometres an hour, and the rain-fall measured ·74 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 212,296 cubic metres, and at Barking 271,426 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the Forty-Sixth Week of Ten previous Years.

Total Births  Males Females .	1861 1774 876 898	1862 1904 928 976	2061 1,066 1995	1864 1950 934 1016	1865 2074 1052 1022	1866 1988 1035 953	2079 1075 1004	1868 2280 1143 1137	2185 1092 1093	2178 1108 1070	Weekly Average in 10 Years. 2047·3 1030·9 1016·4	2076 1100 976
Total Deaths  Males Females .	1288	1429	1457	1742	1515	1428	1457	1506	1859	1639	1532·0	1626
	673	732	721	902	767	727	754	766	945	821	780·8	. 807
	615	697	736	840	748	701	703	740	914	818	751·2	819

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	,	,						_	_				
	Aug.	Sept.	Sept. 9.	Sept.	Sept.	Sept.	Oct.	Oct. 14.	Oct. 21.	Oct. 28.	Nov. 4.	Nov. 11.	Nov. 18.
Total Deaths	1682	1485	1422	1422	1411	1390	1283	1275	1291	1364	1400	1365	1626
Deaths under 5 years of age - Deaths 5-20	967 100	824 86	767 94	717 112	686 97	590 107	539 121	497 103	492 100	527 115	552 129	571 106	688 119
Deaths 20—40	194 197 180 44	178 184 178 35	189 161 160 51	178 223 157 35	201 203 181 43	206 245 202 40	178 212 183 48	202 203 221 49	197 206 238 58	213 230 236 43	201 224 230 64	206 209 221 52	222 239 296
Deaths from Small-pox	82	78 19	- 81	57	89	51	72 25	61	53	61	61	54	76.
" Scarlet Fever - " Diphtheria - " When ying a such	20 24 6 25	24 9 32	21 26 3 26	32 8 32	23 27 7 24	36 6 30	38 5 36	29 9 27	34 40 6 23	31 6 40	45 38 4 51	42 32 5 42	49 40 6 36
" Typhus fever - Enteric (or Typhoid) fever -	4	7	8	11 25	3	8 23	21	6 24	11	23	36	6 32	5 27
, Simple Contafever , Diarrhoa - , Simple Cholera -	7 487 28	353 20	293 24	11 268 15	6 205 2	153 7	80 1	12 69 2	9 46 1	10 32 1	7 19 —	7 21 2	7 17 —
, , , Phthisis , Bronchitis , Pneumonia - , Heart Disease -	145 53 30 60	164 59 37 61	153 47 38 49	146 58 39 62	139 62 37 54	166 83 39 71	143 84 56 60	140 113 62 73	147 120 80 58	157 179 84 74	166 190 81 71	162 180 105 61	160 287 115 85
Mean Temperature of the Air	63.0	64.0	€0.5	62.6	53.6	50.2	51.9	45.5	53.5	46.9	47.3	39.2	35.3
Mean Temperature of the Water of the Thames -	70.5	64.5	64.6	63.4	60.1	56.2	53.7	52.7	51.5	51.6	49-8	46.6	42.1
Humidity of the Air	76	71	78	71	70	88	80	80	91	90	81	84	84
Rain-fall in inches	0.09	0.02	0.66	0.00	0.10	3.34	0.77	0.00	0.55	0.01	0.04	0.03	0.29

#### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar-General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth.; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyae.

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 18th day of November 1871, in the following large Towns.

	1		-			-		_			-4
CITIES	Area	Population estimated	Persons		DEATHS registered		ATURE OF		THE AIR.	DATE	FALI
BOROUGIIS.  (Municipal Boundaries for all except London.)	in Acres.	to the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 18th Nov.	during the Week ending 18th Nov. 1871.	Highest during the Week.		of the Daily	Weekly Mean of the Daily Mean	In Inches.	Ir Cen meta
Total of 20 Towns in the United Kingdom	213,281	7,204.001	33.8	4779	3747	55 8	22:0	37.0	2.78	0.49	1.2
LONDON - :	77,997	3,263,872	41.8	2076	1626	51.0	25.0	35.3	1.84	0.59	0.7
PORTSMOUTH	9,513	113,450	11.9	. 68	- 49 -	55.8	25*8	38.5	3.61	0.22	0.9
Norwich	7,472	80.533	10.8	49.	57	50.8	24.0	36.0	2:22	1.10	2"
BRISTOL	4,688	183,298	39.1 .	127	90	-	1 - /	1 20		"	11 -
WOLVERHAMPTON -	3,387	. 68,476	20.2	44	57	49.8	24.1	36*1.	2.28	0.33	0.
BIRMINGHAM	7,831	344,980	44.1	251	167	50.8	26.3	37.2	2.89	0.41	11
LEICESTER	3,200	95,882	30.0	85	40	51.2	23.0	35.9	2.17	0.43	1.
NOTTINGHAM	1,996	86,929	43-6	* 81	44	52.2	22.7	35.9	2.17	0.72	1.
LIVERPOOL	5,108	494,649	96.8	374	263	50.8	30.2	39.8	4.33	1.18	3°
MANCHESTER	4,486	356,099	79.4	224	212	51.8	24:0	36*1	2.28	0.84	2°
SALFORD	5,172	125,422	34.3	81	60	50.7	24.0	36.2	2.20	0.77	-1"
BRADFORD -\ -	6,590	146,987	22.3	111	72	51.6	27.0	38.8	8.77	0.15	0.
LEEDS	21,572	260,657	12.1	. 187	123	53.0	29.0	38.0	3.33	0.31	0.
SHEFFIELD	22,830	241,507	10.6	193	136	53.0	26.5	37.4	3.00	0.63	1.
HULL	3,562	122,266	34:3	-69	51	50.0	22.0	35.2	1.78	0.28	.,1*
SUNDERLAND	3,306	98,797	29.9	88	79	- /	-	-		-	
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	86	78	48.0	29.0	36.8	2.66	0.51	:0
EDINBURGH	4,427	201,728	45.6	108	95	52.0	22.0	35.8	2.13	0:00	.0
GLASGOW	5,063	479,227	94.7	305	280	- /	1	- 1	-:	- /	1 -
DUBLIN	9,745	310,565	31.9	172	168	54.8	24.8	40.3	4.61	0.13	0.

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by addi 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs show a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, t population being assumed to be now stationary.

- TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Wee ending Saturday the 18th day of November 1871.

		nding Sati												
	ANNUAL RATE				. Th	e Dea	THS reg	istered	in the	Week i	nclude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of Mor- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Searlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	I'm Purhia
Total of 17 Towns -	27	3204	778	649	197	72	80	13	88	106	48	116	239	4
LONDON	26	1626	395	358	76	49	40	8	36	39	17	48	119	20
PORTSMOUTH	23	49	14	11		1		-	4	, .	. 2		. 1	
Norwich	37	57.	12	- 11	24	-	-	-	-	1	-	2	5	
BRISTOL	26.	, 90	18	26		4	. 5	1	1	2	3	1.	7	1
WOLVERHAMPTON -	43	57	14	. 7	25	1	-		5	1	1	2	2	
BIRMINGHAM	25	167	49	28	1		2	3	6	9	2	14	21	1
LEICESTER	22	40	12	11	1	-	-	-	-	-1	1	1	-2	
NOTTINGHAM	26	- 44	6	16	2	-	-	-	-	2	, -	1	3	
LIVERPOOL	28	263	78	- 61	1.	2	10	.1	10	17	9	21	-21	111
MANCHESTER	31	212	38	29	5	-	9	_	11	5	3	7	23	2
SALFORD	25	60	7	11	7	-	1	1	-	2	1	-	3	
Bradford	26	. 72	20	15	1	1	1	-	2	1.	5	5	. 11	1
LEEDS	25	123	28	28	1	2	1	_	3	11	ì	5	10	1.5
SHEFFIELD	29	136	43	10	22	4	5	_	5	1	î	5	6	2 1
HULL	22	51	12	7	4	-	1	-	2		1	2	2	1
SUNDERLAND	42	79	11	.13	12	3	5	1	_	12		2	2	
NEWCASTLE-ON-TYNE -	32	78	21	7	15	5	-	-	3	2	1	1	1	1
									-					-
DUBLIN	28	168	36	33 .	. 7 .		5	2	-	9	2	4	4.6	4

TABLE 5 .- DEATHS in LONDON Registered in the FORTY-SIXTH Week of the Year 1871.

						_					_						
	ATL Thoract And and under 40,																
	of th h We rs 186		Deat	hs o	f Per	sons	of			of th h We		Deat	ths o	f Per	sons	of	
CAUSES OF DEATH.	ages sixtl	Saturday, November 18, 1871.  Deaths of Persons of the Ages  ALL Under \$\frac{\pi}{4} \brace \brace{\pi}{8} \br															
	Aver Porty				der 4	der (	1	s an		Ave forty				der 4	nder (	24	s an
	- ii			0.	ın pa	nd ur	un pu	Years		- i			0.		nd ur	nd nr	Years
Mean Temperature -	M2.4	35.3	0-2	5-2	20 aı	40 aı	60 81	08 n	Mean Temperature -	42.4	_		5-2	20 ar	40 aı	60 aı	08 n
ALL CAUSES	1532.0	1626	688	119	222	239	296	62	9. Stricture of Intestines -	1.2	2	-	-	2	_	-	Ŀ
SPECIFIED CAUSES	1516.6	1619	685	119	221	238	295	61	11. Stomach Disease, &c	5.6	7	-	-	1	2	4	E
I. ZYMOTIC DISEASES.									13. Hepatitis	3.2	2	2	-		- 1	- 1	
ORDER 1.  1. Small-pox	15.3	76		22	24			ŀ	16. Spleen Disease, &c	16.0	24	-			-		-
3. Scarlet Fever (Scarlatina) 4. Diphtheria	103.0	40	30	6	4	_	-		1. Nephritis	1.6	1	1	-	-	-	-	
6. Croup 7. Whooping-cough	16.3	16	15	1 2	-	-			3. Bright's Disease (Nephria)	.0	9	-		2	4	2	E
8. Typhus	60.2	36 5 27	2	13	9	2	1	-	5. Calculus (Stone) 6. Cystitis	.5 7.9	2 14	-	- 1	1	-	- 8	ī
- Simple continued Fever -) 9. Erysipelas 10. Puerperal Fever (Metria)	10.3	7 14 5	8	2	1 - 4	5	1	-	7. Kidney Disease, &c ORDER 6.						4	-	-
11. Carbuncle	6.2	1	-1	-	-	-	-	-	1. Ovarian Dropsy 2. Uterus Disease, &c	3.7	9		1	1	5	3	E
13. Dysentery	1.9 21.5 3.5	17 -	1 13	-	ī	-	· 1 · 3	2.1	ORDER 7. 1. Synovitis (Arthritis) -	.3	1	-	-	_	1	_	_
16. Ague	.1	1 7	. <del>-</del> ,	- ī	ī	-	-	-	2. Joint Disease, &c ORDER 8.	3.8	5		3	2	-	-	-
19. Other Zymotic Diseases -	8.8	-	Ξ	-	4	-	1	E	1. Phlegmon	1.8	2	1	-	1	-	-	-
1. Syphilis	7'8	7	6	1	-		-	-	3. Skin Disease, &c IV. DEVELOPMENTAL	1.6	1	1	-	_		-	-
3. Hydrophobia	*2	=		-	-	-	-		DISEASES. ORDER 1.			Н				1	
ORDER 3.  1. Privation  2. Want of Breast-milk -	*6 9*4	1	-	-	1	-	-	-	1. Premature Birth 2. Cyanosis	20.1	21	21	-	-	-	-	_
3. Purpura and Seurvy - 4. Alco-(a Del. Tremens -	1.0	16 3 -	16 2	-	1	-	-		3. Spina Bifida 4. Other Malformations -	1.8	2 3	3	_		-	-	-
holism b Intemperance - ORDER 4.	1.0	1	_	_		_	1	_	5. Teething ORDER 2.	13.7	10	10	-			-	
1. Thrush	3.2	2 -	2 -	-	-	-		-	1. Paramenia 2. Childbirth (see Puerperal)	4.8	6	-	-	8	-	-	i
II. CONSTITUTIONAL DIS. ORDER 1.									Fever) (		-					_	
1. Gout	1.7	5 10	3	-	7 1	2	3 4	2 2	1. Old Age ORDER 4.	24.0	50		-	-	_	21	29
8. Cancer 4. Cancrum Oris (Noma) - 5. Mortification	28.4	30 2 5	2	1 -	4	11	12	2 - 1	1. Atrophy and Debility -	63.2	57	43	_	1	3	10	Ŀ
ORDER 2.	8.1	7	5	1	-	1	-	-	V. VIOLENT DEATHS, &c. ORDER 1.								
2. Tabes Mesenterica 3. Phthisis	18.4 168.7 23.8	17 160	15 7 15	1 15	80	1 50	8	-	(ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	1010		I,			4		
4. Hydrocephalus III. LOCAL DISEASES.	23.8	16	15		1		_	-	2. Wounds	19:2 6:9	19	1	2 2	8 -		3	Ė
ORDER 1.	12.1	11	. 7	1	2	1	_	_	4. Poison	3.6 1.1	2 3 13	1 13	ī	1	2	-	E
2. Apoplexy	34.5	23	4	4 2	3	17 4 1	23 11	5 3	7. Otherwise	2.5	2	1	-	1	-	-	-
5. Chorea	9.3	1 1 5		- 2	1 3	-	-	-	Order 3. (Homicide.)		-						
7. Convulsions 8. Brain Disease, &c	51.0 17.2	63 18	63 2	ī	3	8	9	-	1. Murder and Manslaughter ORDER 4.	2.3	1	1	-	-	-	-	Ŀ
ORDER 2. 1. Pericarditis 2. Aneurism	2.6	4		1	1.	1	- 1	-	(SUICIDE.)								
3. Heart Disease, &c ORDER 3.	69.6	85 85	1	-8	10	30	34	2	1. Wounds {Gunshot - Cut, Stab	1.0	=	-	-	=	=	-	
1. Laryngitis	6·1 187·3	9 287	7 138	1 3	6	37	91	12	3. Drowning 4. Hanging 5. Otherwise	1.3	2 2	-	-		1	1	-
3. Pleurisy	3.8 118.0 11.2	115	81	6	11	8 3	9	1	ORDER 5.		-		_	_		-	-
6. Lung Disease, &c ORDER 4.	17.7	29	17	8		4	5	-	(EXECUTION.)	•1	-	_	_	_	_		
1. Gastritis	1°3 5°0 5°4	7	2	1	1	2 2	1	Ē	Violent Deaths (not classed)	•2	1	1		_			
4. Ascites 5. Ulceration of Intestines -	2.2	3 5	1 -	3 -	-	4	2	E	Sudden Deaths (Cause un- )	2.3	1	-		-		-	
6. Hernia	3°9 2°7 8	7 6 3 5 3 2 2	۶	-	1	-	2 2	ī	ascertained) Causes not specified or ill-	13.1	7	3		1	1	1	1
Note Where a person is	0	2					2	-	denuca)					- 11			

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

390 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes

TABLE 6. LONDON.—POPULATION, BIRTHS, DEATHS from ALL CAUSES, and from SMALL-POX, MEASLES, SCARLET during the Week ending

	_		an l	bo .				The 1	DEATI	IS TOO	istere	l in t	ha We	ek ind	lnde			
REGISTRARS' SUB-DISTRICTS.		Enume- rated Popu- lation, 1871.	Total BIRTHS during the Week.	Total DEATHS during the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con-	Diarrhea.	Violence.	Inquest Cases.	(In Public Insti- tutions.†
LONDON -		3,251,804	2076	1626	395	358	76	49	40	6	36	5	27	7	17	.48	119	262
WEST DISTRICTS NORTH DISTRICTS - CENTRAL DISTRICTS - EAST DISTRICTS SOUTH DISTRICTS		561,189 751,668 333,887 638,928 966,132	306 467 239 433 631	238 361 200 349 478	56 85 40 86 128	58 79 87 75 109	6 40 4 12 14	2 21 5 14 7	6 7 5 5 17	1 2 1 2	10 · 7 · 1 · 7 · 11	- 1 2 2	6 3 6	2 - 3 2	4 3 3 2 5	5 8 9 15 11	11 25 21 44 18	32 69 41 57 63
West Districts.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Brompton H - St. Peter Hammersmith H - St. Paul Hammersmith H - Fulham WLLLL - Chelsea South HH - Chelsea North-west HWw - Chelsea North-west HWw - Chelsea North-east L - Hanover Square - Hanover Square - Belgrave HH - St. John Westminster HHH St. Margaret Westminster W St. James's Square - Golden Square W - Berwick-street - St. Anne Soho HH -		\$8702 \$8042 \$1583 24641 6 762 56080 23378 24419 23278 213-9 18700 18020 58043 8470 2449 1249 1259 1275	25 11 59 6 3 32 18 20 16 6 6 5 43 23 17 2 6 8 5 8	28 16 85 8 1 15 16 8 17 11 2 4 19 17 1 16 3 7	6 13 1 -4 6 2 3 1 -6 6 6 6 -1 	10 7 5 6 4 2 9 3 - 8 2 2 1 8 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 3	1	1 3 1 3 1		2 - 1 - 1 - 1	1		121111111111111111111111111111111111111	1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1	8 6 1 2 1 4 6 7 - 1
NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square - Rectory Marylebone WH - St. Mary Marylebone H - Christchurch Marylebone - St. John Marylebone - Hampstead WHH - Regent's Park Paneras - Tittenham-court wH - Gray's Town - Camer Town W - Camer Town W - Cantish Town W - Islington West* WHHH - Islington East Www - Stoke Newington L - Stamford Hill - West Hackney - Hackney WwHL - South Hackney WHL - South Hackney L -		28574 16419 26387 21795 38892 33110 32271 88119 29360 29216 35572 35572 18066 68198 97801 115948 9810 5097 5097 30305	19 5 12 22 12 12 14 24 11 19 27 9 49 80 66 9 3 20 80 24	20 6 14 19 20 21 13 16 16 19 8 28 55 48 6 1 9	4 1 3 2 7 4 1 3 4 5 2 3 5 10 19 1 2 7 2	6 2 8 1 5 2 2 4 4 1 7 10 12 2 2 4	1 - 10 - 2 1 2 - 1 7 7 14 1	5 22 4 7 7 11 1	21	1	1 - 2 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 3 2 2 1 4 1 1 2 2 2 -	7 
CENTRAL DISTRICTS. St. George Bloomsbury St. Giles South WH - St. Giles North - Long Acre - Charing Cross WH - St. Mary-le-Strand - St. Clement Danes H - St. Gorge-the-Martyr HHE St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell W - Amwell Clerkenwell W - Pentonville - Goswell-street - City-road WHHL Whitecross-street - Finsbury - St. Botolph East London HE Cripplegate - St. Sepulchre H - St. Sepulchre H - St. Sepulchre H - Castle Baynard - Christchurch - Queenhithe - Allhallows Barking - Broad Street -		17843 19989 16197 11328 9831 20521 18528 9051 18812 16528 9051 18872 16293 16290 12186 18291 13790 10732 14844 1889 8308 4744 5694 7888	10 13 12 7 7 8 7 13 13 10 16 16 13 32 2 2 3 5 7 7 7 7 8 7 7 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	9 12 9 9 5 8 8 9 9 23 15 5 13 3 5 5 13 3 2 1 1 1 19 3 2 2 2 2 2 2 2	2 1 2 5 - 3 3 1 6 6 1 1 1 2 1 2 1 1 2 1 1	3 3 3 1 1 1 1 2 3 4 4 2 1 1 1 2 4 2 2 1 1 1 - 1	211	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		111111111111111111111111111111111111111			THE THE PERSON OF THE PERSON O		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 10 8 2 1 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1

<sup>\*</sup> The Small-pox and Fever Hospitals are situated in the sub-district of Islington West. † Officials of Public Institutions are not included.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 391

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday. 18th November 1871.

		during	during			1	The D	EATHS	s regis	tered	in the	Wee	k inel	ude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhes.	Violence.	Inquest Cases.	In Public Insti-
EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26944 24458 19257	8 15 27 20 20 13	7 11 22 11 18 8	4 - 6 3 5 -	2 8 1 4 2	inni	2 2 - 2 1	1	11111	1 1 22 4 1 1		2 -	111111	111111	111111	811111	10 -4 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	21 36 17 23	14 49 7 16	5 9 2 5	17 3 2	8	2 - 1	ī - 1	1 -		1111	1111	2 -	1111	1 2	15 1 6	13
Artillery Whitechapel Spitalfields	6651 15844 15550 114.4 7823 10381 9149	5 3 12 9 3 2	3 8 15 3 12 2 4	1 7 1 2 1	2 8 8 1 1 -	2	in iin ii	11111111	1111111	1	11111149	1111111	1111111	1111111	1 2 2 -	1 2 2 - 2	110010011
St. Mary St. George East St. Paul St. George East St. John St. George East W	17976 21356 8973	8 11 -	5 9 9	3 -	1 8	1 -	-	7	-	1	-	4 1 1 2	111	-	137	111	3
Shadwell W Ratcliff WH Limehouse W	11623 15930 30025	7 21	6 8 18	7	1 3	3	= .		ī	1 1 1.3	ī	2	1	1	1	2 2 4	1 1 1
Mile End Old Town West Mile End Old Town East WwH - Bow WwHL† Poplar W	88126 55020 67777 48500	24 25 52 44	16 21 83 14	2 4 8 5	2 5 7 3	2 1	3	2 -		1 - ī		1	1	ī	1	1 2 -	8 1
SOUTH DISTRICTS.  Christchurch Southwark W	14-47 15667 20480 16694 18959 23678 48282 16786	11 12 14 14 14 8 16 39 9	10 7 5 8 8 7 40 8	3 4 2 1 3 2 10 2	3 2 2 2 2 1 16	111111111	1 1 1 1 1	11111111	ri filmi	1 1 1 1 -		1 1 1 1	11,2,31111	1	1111111	1	3 - 1 - 12
St. Olave Southwark H	4157 10595 16785 15707 47921 27878	2 6 11 8 34 15	13 2 9 12 27 12	1 3 2 9 8	1 4 4 1	111	4	- 2 3 -	111111	1 1 -	11.11.11	=======================================	111111	1	2	2 - 1 - 1 -	10 - 1 - 2
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 35831 41284 31213 3:431 12534	9 14 18 34 28 22 17	5 4 17 27 16 13 11 6	2 2 3 9 4 6 2	3 4 4 2 5 3	1 - 2 1	11111166	1	11111111	111111	T. L.	1 1 1	1 1	1111111	1 1 1 -	2 2 1 1 -	11 6 -
Clapham HL Battersea W	27348 53988 19797 9438 14479	14 43 5 3 8	9 22 12 4 3	2 7 1 2 1	3 4 1 -	1	111111	1 1 - 1 -		2 -		ĩ -	11,1,11		11111	1	1
Dulwich	4041 31251 42159 33851	1 18 27 27	1 15 26 19	10 6	8 2 2	- 3	4111	3	1111	1	1111	11111	41714	- - 1	1 - 1	1.1	3 -
St. Paul Deptford St. Nicholas Deptford Greenwich East WH	53696 6487 21098 19820	28 4 11 20	21 3 6 16	5 1 2 2	2 1 3 8	1 -	13.61	1 -		1 1.1 1	1131			-	1 -	1 - 1	1117
Eltham - Lee Lewisham Village W Sydenham	4528 16430 11508 19016	1 9 8 9	1 7 5 7	1 1 3	1 2 - 2	1111	13.11			1	1771		1117	1	- 1 -	1111	1
Charlton H Woolwich Dockyard	9503 17229 18319 13 28 1 290	6 17 3 16	2 6 11 5 10	1 1 4 2 1	1 1 2 5	2 -	11111	3 1		1	11111	11111	11111	1 1 1 1 1	11111	1	1 4

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

Holborn Workhouse is in Hoxton New Town sub-district.
London City , , , , Mile End Old Town Eastern sub-dist, and
Stepney - , , , , Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

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				Ozone		:	:	:	:	:	:	1		56	
RAIN.	Collected	Gauge	whose	surrace is 5 in. above the ground.	Inches	90.0	00.0	0.05	0.04	00.0	0.0	Sum	0.59	25	
		Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	135	96	297	241	419	57	Sum	1502	54	
ı.	ters.		Pressure on square foot.	Mean of 210bs.	lbs.	0.0	0.0	2.0	0.5	1.4	0.0		:	23	
	петоте		e on squ	Least.	lbs.	0.0	0.0	0.0	0.0	0.0	0.0			22	
WIND.	from A	.8.	Pressur	Great-	lbs.	e	0.1	land.	2.8	9.71	0.4			21	
	As deduced from Anemometers.	()sler's.	General Direction.	P.M.		WNW.&	SW. & E.		N. NW. &	W. & N. hy E. & N. 12.6	WNW. N.	Variable	andro	20	NOTES.
			General I	A.M.		W. by S.	W. by S.	SW. & W.	NNE.	W. & N.	W.&WNW.		ו מון	61	
Degree	midity,	Satura.	being	sented by 100.		282	95	93	80	75	84	0.4	10	18	
Z.	Between		mean tem-	the same day on an average of 50 years.*	0	-11.6	-12.9	+ 2.4	- 5.5	1.8-1	-13.0	1.0	-	17	
DIFFERENCE	Point		ture.	Least.	0	0.0	0.5	0.0	3.5	4.3	93 50	1.0	6.1	16	
DIE	Between Dew Point	and	Air Temperature	Great-	c	6.6	5.0	6.9	9.2	10.2	6.9	1 0	6.	15	
1	Betwe		All	daily value.	0	3.5	1.9	1 00	9.9	7.1	4.0	100	4.	14	
14.1	In the Water of	the Thames at	self-registering	Highest, Lowest.	0	41.7	40.7	39.7	40.0	40.0	39.0	10.1	1.07	13	
1 1 1 1	In the V	the Th	self-reg	lighest.	c	45.2	44.6	43.6	43.9	43.6	43.1	14.0	7.7.	12	HERI
TERS.	Lowest on the	Grass, as	a self-		0	9.91	19.0	33.8	23.5	24.5	20.5	0000	0.77	11	TMOST
READINGS OF THERMOMETERS	Highest in	shown by	tering Thermo-	balb in vacuo, placed on the Grass.	0	48.1	43.1	0.09	63.7	44.5	34.6	7	0.10	10	SKY AND ATMOSPHERE
do son	Dew	roint.	Mean	daily value.	0	28.1	28.7	43.5	31.5	26.5	25.0	0.10	0.10	6	SI
READIN			Mean	in daily day, value.	0	32.5	30.6	45.3	37.1	6.6 33.6	9.6 29.0	0.20	0.00	00	
1	Drv.		Range Mean	-	0	15.9	11.8	11.0	10.9			10.	12.4	7	-
ï	D			est. est.	0	25.8	25.9	40.0	43.0 32.1	31.0	25.0	100	# 67 -	9	
- :			:	est.	0	41.7	37.7	51.0	43.0	37.6	34.6	1 :	41.2	5	CITY.
BARO-	Mean	reading	rected and re-	duced to 32 degr. Fahren heit).	i.	New 29.889 41.7 25.8 15.9 32.2	30.139 37.7 25.9 11.8 30.6	29.629	29.847	29.782	30.125, 34.6, 25.0	1.00	. CC 4-21 4-62 9-14   II6.62	1+	ELECTRICITY.
Moon.		Pheses		Moon.		New	:	rerigee	Greatest 29.847	-:			:	00	EI
			DAX.		F.	12	13	15.	16	17	18	1	•	nns.	-
	]	1871.	ONTH AND DAY.		NOVEMBER.	UNDAY .	ONDAY .	UESDAY . 14	HURSDAY. 16	RIDAY	ATURDAY . 18	,	MEANS	o. of Columns.	DATE.

daily values by the application of corrections deduced by James Glaishor, F.R.S., from five years' observations enting 1845, December 31.—28e Plat. Trans., part. 1 1845. The mean daily dew point and degree of humfilty are deduced from those mean daily values of the dry and wer bulb thermometers by Glaisher's Hygrometrical Tables, Fourth edition. The results for mean daily temperature of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 91. A.A., noon, 31. P.M., and 91. P.M., as well as the results deduced from the maximum and minimum thermometers, as determined by the self-registering thermometers, the proper corrections being applied to each. The average temperature of the air is that determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory, Greenwich, in the 50 years ending 1863, December 31. In reading the 17th column twill be borne in mind that+ is read. "higher," and—"boner," than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midnight. The height of the cistern of the barometer is considered to be 159 feet above the mean level of the sea. The readings of the barometer are considered to be coincident with those noon; Sh. P.M.; and 9h. F.M. The means of the readings of the barometer, the dry thermometer, and the wet thermometer, observed at these times, are converted into mean The observations are taken at 9h. A.M. of the Royal Society's flint glass standard barometer. Hoar frost in the morning. Generally cloudless throughout. Foggy in morning. Fine. Hoar frost at night. Gloudless, with hoar frost, till 6h. A.M.; small amounts of cloud prevalent till 3h. P.M.; overcast after that time. Rain fell from Th. P.M. till midnight. Rain fell in the early morning and occasionally during the day. Overcast at mid-day. Generally cloudless at other times.

at night.

Cloudless, with hoar frost, in morning and Cloudy at mid-day.

Positive, with variable tension occasionally.

12

SUNDAY

DATE. NOVEMBER

FR

No To WE

Su

Mo

Weak positive in the morning.

13 14

MONDAY

ati

tension

Positive, with weak noon,

TUESDAY

The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Soorpion" Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the superintendence of the resident inspector on board the ship, by permission of Liout.-Col. Henderson, R.E., C.B., Commissioner of Metropolitan Police. orning. Variable amounts of Hoar frost at night, with a

Generally cloudless.

Rain fell between 1h. and 2h. A.M. and misty. A fine day.

Weak positive at night.

16

THURSDAY .

FRIDAY

No electricity shown.

15

WEDNESDAT

Snow fell occasionally in the morning. cloud prevailed during the day. Hoar fredoudless sky.

Dense haze and fog.

Cloudless.

The apparatus was injured.

18

SATURDAY .

The reading of the barometer increased from 29.65 in. at the beginning of the week to 3719 in. by 9h. P.M. on the 18th; decreased to 29.69 in. by 9h. A.M. on the 15th; increased to 29.88 in. by 9h. A.M. on the 15th; and was 39.19 in. at the end of the week. Hoar frost all day.

LONDON: Printed by Grorge E. Erre and William Spottiswoode, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Odice.

### WEEKLY RETURN

#### BIRTHS AND DEATHS IN LONDON AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 47. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, NOVEMBER 25. [Price 1\frac{1}{2}d.

General Register Office, Somerset House, 27th November 1871.

During the week ending Saturday the 25th instant, 4819 births and 4156 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week in these towns was at the

rate of 30 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the Seventeen English Cities and Towns, were as follow:—London 30 per 1000; Portsmouth 26, Norwich 42, Bristol 29, Wolverhampton 50, Birmingham 25, Leicester 22, Nottingham 37, Liverpool 32, Manchester 31, Salford 29, Bradford 29, Leeds 27, Sheffield 30, Hull 24, Sunderland 43, and Newcastle-upon-Tyne 30. The fatal cases of smallpox in these seventeen towns, which in the three previous weeks had been 177, 153, and 197, further rose last week to 209; of these, 67 occurred in London, 26 in Norwich, 25 in Sheffield, 23 in Wolverhampton, 16 in Newcastle-upon-Tyne, 13 in Sunderland, 11 in Nottingham, 8 in Salford, 6 in Birmingham, and 4 in Bristol. The annual death-rate from this disease was equal to 18 per 1000 persons living in Wolverhampton, 17 in Norwich, 7 each in Sunderland and Nottingham, 6 in Newcastle, 5 in Sheffield, 3 in Salford, and one each in London, Birmingham, and Bristol.

In Edinburgh the annual rate of mortality from all causes last week was 32 per 1000 persons living, in Glasgow 33 per 1000, and in Dublin 27. Small-pox shows increasing prevalence in Dublin; the fatal cases, which in the three previous weeks

had been 14, 9, and 7, rose last week to 15.

In Paris 708 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 20 per 1000 of the estimated population. In Brussels 101 deaths occurred in the week ending the 18th, and the annual deathrate was 28 per 1000. In Vienna the 371 deaths in the week ending the 18th gave an annual rate of 31 per 1000. In Rome 183 deaths were registered in the week ending the 12th, and the annual death-rate was 42 per 1000.

In Bombay the deaths registered during the week ending the 31st ultimo were

277, and the mortality was at the annual rate of 18 per 1000.

In London 2119 BIRTHS and 1863 DEATHS were registered last week. After making due allowance for increase of population, the births were 119 below, while the deaths exceeded by 179, the average numbers in the corresponding week of the last ten years. The deaths showed a further increase of 237 upon those returned in recent weeks.

The 1863 deaths last week showed an increase of 36 per cent. upon those registered in the week ending the 11th instant, when the recent inclement weather had not yet influenced the returns; the increase was 55 per cent. in the East, 46 in the North, 45 in the Central, 28 in the West, and only 19 in the South Districts of London. Excluding the large suburban area of South London, in which the increase was only 11 per cent., the increase in the more purely urban portion is raised to 25 per cent. As might have been expected, marked variations are shown in the influence of the cold weather upon the mortality at different ages. The increase of deaths last week of children under five years of age, upon those in the week ending 11th instant, was 30 per cent.; of children and adults aged five and under 40 years 18 per cent., between 40 and 60 years 64 per cent, and at 60 years

[47.]

of age and upwards 53 per cent. The increase, therefore, was not so great among old persons, as among the middle aged, who are more exposed to the effects of the cold. Among the deaths of children under five years of age, the increase was 18 per cent. under one year, 32 per cent. at one and under two years, and 60 per

cent. at the ages two and under five.

The 1863 deaths in London last week included 67 from small-pox, 60 from measles, 34 from scarlet fever, 4 from diphtheria, 64 from whooping-cough, 44 from different forms of fever (of which 4 were certified as typhus, 27 as enteric or typhoid, and 13 as simple continued fever), and 7 from diarrhea; thus to the seven principal diseases of the zymotic class 280 deaths were referred last week, against 241 and 263 in the two preceding weeks. The fatal cases of whooping-cough, measles, and fever showed an increase upon those in the previous week, while those of small-pox and scarlet fever had declined. The fatality from measles was excessive in Islington, Poplar, and Bermondsey; from scarlatina in Islington, Bermondsey, and Battersea; and from whooping-cough in Lambeth, Bermondsey, and Mile End Old Town.

The deaths from small-pox in London, which in the two previous weeks had been 54 and 76, declined last week to 67, exceeding, however, by 51 the corrected average weekly number in the corresponding week of the ten years 1861-70. In the four small-pox hospitals at Hampstead, Homerton, Islington, and Brixton, 26 deaths were returned last week, against 19, 22, and 26 in the three previous weeks. The fatal cases last week were most numerous in South Hackney, St. George (Camberwell), Kentish Town, Christchurch (Marylebone), and Limehouse

sub-districts.

The increase of deaths last week was again almost entirely due to the greater fatality from diseases of the respiratory organs, induced by the unseasonably low temperature which has recently prevailed. The fatal cases of bronchitis in London, which in the two previous weeks had been 180 and 287, further rose to 380 last week; while those of pneumonia, from 81, 105, and 115, rose to 162. Of the 380 deaths from bronchitis last week, 155 were of children under five years of age and 147 of persons aged 60 years and upwards.

No less than 12 of the deaths from all causes registered last week were of persons aged 90 years and upwards, including two centenarians; a carpenter who died in the Shoreditch workhouse was stated to be 102, and the age of the widow of a shoemaker who died in North-street, Clapham, was given as 101 years 11 months

and 18 days.

To different forms of violence 57 deaths were referred last week; of these, 45 were the result of accident or negligence, including 22 from fractures and contusions, 5 from burns and scalds, 3 from drowning, and 12 from suffocation, of which 9 were of infants. Of the deaths from fractures and contusions, 6 were caused by horses or vehicles in the streets. No less than 10 cases of suicide, one of manslaughter, and one of infanticide, were registered during the week; 5 of the suicides were effected by poison, 2 by hanging, and one by gunshot.

Dr. E. Frankland, F.R.S., in his report upon the quality of the waters supplied to the Metropolis during the present month states that all the samples were clear when drawn from the respective companies' mains. The Thames having recovered from the late floods, the water delivered by the Chelsea, Grand Junction, and Lambeth Companies did not exhibit the exceptional degree of impurity shown during October. Assuming the amount of organic impurity found during November in a given volume of the Kent Company's water, drawn from deep chalk wells, to be 1, the proportional amount in an equal volume of water supplied by the other companies was: — New River 1.4, Lambeth 3.5, Grand Junction 3.6, Chelsea 3.7, West Middlesex 7.2, and 8.7 in the Southwark Company's. Dr. Hill reports of the Birmingham water that it was so turbid, from inefficient filtration, that he allowed it to subside before submitting it to analysis.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.98 in.; the highest reading was 30.28 in. on Sunday morning, and the lowest 29.74 in. on Saturday afternoon. The mean temperature of the air was 34°.3, or 7°.0 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was considerably below the average on each day of the week. On Sunday, 19th, the mean was only

30°·1, and the deficiency 11°·7, while the cold was least severe on Friday, when the mean was 36°·5, and only 4°·5 below the average. The highest day temperature in the shade was 44°·2 on Monday; the lowest night temperature 20°·3 on Sunday; the entire range of temperature in the week was, therefore, 23°·9. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 68°·4 on Tuesday. The difference between the mean dew-point temperature and air temperature averaged 3°·9. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 38°·5 last week. The mean degree of humidity of the air was 86, complete saturation being represented by 100. The general direction of the wind was S.S.E. and W.S.W., and the horizontal movement of the air in the week averaged 4 miles per hour. Rain fell on Wednesday and Saturday, but only to the amount of ·10 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 32°·3 in Hull to 37°·0 in Portsmouth; the lowest recorded night temperature was 19°·0 in Leicester, and the highest day temperature in the shade 46°·6 in Portsmouth. Rain was measured last week in each of these towns; about three quarters of an inch fell in Portsmouth, while the amounts measured in the other towns ranged from '02 of an inch in Norwich, to '38 in

Liverpool.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 215,582 cubic metres, and at Barking 231,618 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

The REGISTRAR GENERAL has to acknowledge the courtesy of the London Water Companies, who have furnished him with the average daily quantity of Water supplied for the month of OCTOBER 1871: thus, according to their account, 105,645,974 gallons or 479,998 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 215.0 gallons (97.7 decalities), rather less than a ton by weight, to each house, and 30.3 gallons (13.8 decalities) to each person.

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of October 1871, it may be estimated that about 86,629,699 gallons were probably used for domestic purposes, or about 24.8 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Registrar General has no means of giving a more exact estimate.

COMPANIES.		Houses, &c.	in Gallons (in Manufacture purposes oth	Supply of Water neluding that for s and for various er than for doumption) during
	OCTOBER . 1870.	Остовек 1871.	OCTOBER 1870.	Остовек 1871.
TOTAL SUPPLY	482,565	491,485	104,073,197	105,645,974
From Thames . From Lea and from other Sources	222,710	228,631	54,135,715	55,666,837
	259,855	262,854	49,937,482	49,979,137
THAMES. Chelses West Middlesex Southwark and Vauxhall Grand Junction Lambeth	27,670	27,949	8,116,400	8,839,100
	41,361	42,666	8,723,137	9,122,729
	77,251	78,621	16,012,53 <b>7</b>	16,438.726
	30,929	32,316	11,010,841	10,755,582
	45,499	47,079	10,272,800	10,510,700
LEA AND OTHER SOURCES. New River East London Kent	118,259	119.634	22,952,000	23,161,000
	101,817	102,624	19,743,498	20,371,500
	39.779	40,596	7,241,984	6,446,637

Note.—The Return for October 1871, compared with that for the corresponding month of 1870, shows an increase of 8,920 houses and of 1,572,777 gallons of water supplied daily.

### Analysis of Metropolitan Water Supply for November.

Royal College of Chemistry, 25th November 1871. SIR,

I HAVE the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the Metropolis during the month of November, and I append also the results yielded by the Birmingham water supply furnished by Dr. Hill.

All the Metropolitan waters were clear when drawn from the companies' mains.

The Thames has recovered from the late floods, and the water delivered by the Chelsea, Grand Junction, and Lambeth Companies no longer exhibits an exceptional degree of impurity; but the West Middlesex and Southwark Companies, on account of the greater capacity of their storage reservoirs, were still delivering, on the 13th instant, water which had been impounded during the period of flood. It was, however, considerably superior to that delivered by the first-named companies during the month of October.

The amount of organic impurity found in a given volume of the Kent Company's water, from deep wells in the chalk, being taken as 1, the proportional amount in the same volume of water supplied by each of the other Metropolitan Companies was:—Chelsea 3·7, West Middlesex 7·2, Southwark 8·7, Grand Junction 3·6, Lambeth 3·5, New River 1·4, and East London 4·1. In October the proportional amounts were as follow: - Chelsea 17.5, West Middlesex, 9.7, Southwark

15.1, Grand Junction 17.4, Lambeth 16.4, New River 4.3, and East London 7.5.

Dr. Hill reports that the water supplied to Birmingham was so turbid that he allowed it to subside before submitting it to analysis. He states that "one of the greatest wants of our water " supply is efficient filtration."

The Registrar General, &c., &c.

I am, &c., E. FRANKLAND.

#### RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

	TLESULIS OF TENABLISIS A.				_						
Companies.	Date and Place of Collection.	Temperature in centigrade degrees.	Total Solid Impurity.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen, as Ni- trates and Nitrites.	Total combined Nitrogen.	Previous Sewage or Animal Contamina- tion, (Estimated.)	Chlorine.	Total Hardness.
THAMES. Chelsea	{ 13th November, Cab Rank, Victoria-street.}	7.3	29.80	•124	.025	•000	•192	•217	1600	1.85	23*3
West Middlesex -	{ 13th November, Cab Rank, Portland-road }	7.0	29.10	-247	.050	.000	•218	*268	1860	1.75	23.3
Southwark and Vauxhall -	{ Cab Rank, St. George's Church, Borough.	7.0	29.16	•317	•039	•000	•211	*250	1790	1.75	23.6
Grand Junction -	{ 17th November, 14, Lancaster Gate, Hyde Park. }	6.7	29.00	•116	•030	•000	•230	•260	1980	1.75	23.6
Lambeth	{ Cab Rank, Lambeth-road }	7.0	30.00	•125	*017	•000	*236	•253	2040	1.70	24.2
OTHER SOURCES. New River	13th November, Cab Rank, Tottenham- court-road.	8.0	29.10	•046	.012	*000	*221	*233	1890	1.65	24.2
East London -	{ Royal Hotel, Mile-end-road.	6.0	31.60	•140	.030	.000	178	*208	1460	2.00	26.0
Kent	14th November, Deptfd. Bdge. Police Stat.	9.7	39.91	•028	.013	.000	*379	*392	3470	2:35	29.7
Birmingham* -	6th November, Birmingham Waterworks	_	23.70	*305	*045	*002	•008	.054	0	1.70	17.4
Column 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingham.

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 13th November at the cab-rank, Victoria-street, had a temperature of 7°·3 C.; 100,000 lbs. of it contained 29·80 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained .124 lb. of carbon and '025 lb. of nitrogen. The above quantity of water contained no ammonia, and '192 lb. of nitrogen in the form of nitrates and nitrites, whilst the total amount of combined nitrogen in every form was '217 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contaminated with animal matter equivalent to that contained in 1,600 lbs. of average London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 1.85 lbs. of chlorine. Finally, 100,000 lbs. of the water contained 23.3 lbs. of carbonate of lime, or an equivalent quantity of other hardening or soap-destroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation

transforms the hardness in the Table into degrees of hardness on Clark's scale.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FORTY-SEVENTH Week of Ten previous Years.

	1861	-1862	1863	1864	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1871
Total Births  Males Females .	1853	1885	1970	1944	1926	2135	2260	2158	2080	2138	2034 9	2119
	939	1000	999	1004	957	1101	1168	1083	1063	1081	1039 5	1083
	914	- 885	971	940	969	1034	1092	1075	1017	1057	995 4	- 1036
TOTAL Deaths  Males Females	1434	1559	1475	1677	1471	1435	1426	1507	1676	1652	1531·2	1863
	728	811	756	825	738	716	699	748	852	860	773·3	917
	706	748	719	852	733	719	727	759	824	792	757·9	946

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	Sept.	Sept. 9.	Sept.	Sept.	Sept.	Oct.	Oct. 14.	Oct. 21.	Oct. 28.	Nov.	Nov. 11.	Nov. 18.	Nov. 25.
Total Deaths	1485	1422	1422	1411	1390	1283	1275	1291	1364	1400	1365	1626	1863
Deaths under 5 years of age - Deaths 5-20	82 <b>4</b> 86	767 94	717 112	686 97	590 107	539 121	497 103	492 100	527 115	552 129	571 106	688 119	742 118
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	178 184 178 35	189 161 160 51	178 223 157 35	201 203 181 43	206 245 202 40	178 212 183 48	202 203 221 49	197 206 238 58	213 230 236 43	201 224 230 64	206 209 221 52	222 239 296 62	250 342 338 73
Deaths from Smallpox , , Measles , , Scarlet Fever - , , Diphtheria - , , Whooping-cough , , Typhus fever - , , Enteric (or Ty-)	78 19 24 9 32 7	81 21 26 3 26 8	57 16 32 8 32 11 25	89 23 27 7 24 3	51 18 36 6 30 8	72 25 38 5 36 4 21	61 -34 29 9 27 6	53 34 40 6 23 11	61 36 31 6 40 4	61 45 38 4 51 4	54 42 32 5 42 6	76 49 40 6 36 5	67 60 34 4 64 4
phoid) fever - \( \)  , Simple Cont <sup>d</sup> fever  , Diarrhœa -  , Simple Cholera -	4 353 20	11 293 24	11 268 15	6 205 2	8 153 7	7 80 1	12 69 2	9 46 1	10 32 1	7 19	7 21 2	17	13 7
,, Phthisis Bronchitis Pneumonia - Heart Disease -	164 59 37 61	153 47 38 49	146 58 39 62	139 62 37 54	166 83 39 71	143 84 56 60	140 113 62 73	147 120 80 58	157 179 84 74	166 190 81 71	162 180 105 61	160 287 115 85	219 380 162 88
Mean Temperature of the Air	64.0	60.5	62.6	53.6	50.2	51.9	45.5	53.5	46.9	47.3	39.2	35.3	34.3
Mean Temperature of the Water of the Thames	64.5	64.6	63 • 4	60 · 1	56.2	53.7	52.7	51.5	51.6	49.8	46.6	42.1	38.5
Humidity of the Air	71	78	71	70	88	80	80	91	90	81	84	84	86
Rain-fall in inches	0.02	0.66	0.00	0.10	3.34	0.77	0.00	0.55	0.01	0.04	0.03	0.29	0.10

#### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S. :—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 25th day of November 1871, in the following large Towns.

										_	_	_
1	CITIES	Area	Population	Persons	BIRTHS registered	DEATHS registered		ATURE OF		TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALL.
I	AND	in	estimated to the	to an	during the	during the			Weekly	GRADE.)		
I	BOROUGHS.		middle of the Year	Acre.	Week ending	Week ending	Highest	Lowest	Mean	Weekly		In
ı		Acres.	1871.*	(1871.)	25th Nov.	25th Nov.	during	during	of the Daily	Mean of the Daily	In Inches.	Centi- metres.
Į	(Municipal Boundaries for all except LONDON.)				1871.	. 1871.	Week.	Week.	Mean	Mean		metres.
ı	Jor att except Hondon)				1			· ·	Values.	Values.		
ı	Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	4819	4156	56.8	19.0	35.3	1.84	0.30	0.76
ı	LONDON	77,997	3,263,872	41.8	2119	1863	44.2	20.3	34.3	1.28	-0.10	0.25
ı	PORTSMOUTH	9,513	113,450	11.9	75	56	46.6	25.4	37.0	2.78	0.72	1.83
i	NORWICH	7,472	80,533	10.8	52	65	42.2	26.2	33.4	0.78	0.05	0.05
ľ	BRISTOL	4,688	183,298	39.1	132	102		-	-	-	i i	-
ı	WOLVERHAMPTON -	3,387	68,476	20.2	43	66	43.2	24.6	34.9	1.61	0.25	0.63
ı	D	pr 0.04	344,980	44.1	253	165	45.4	21.8	34.4	1.33	0.27	0.69
ı	BIRMINGHAM	7,831	95.882	30.0	62	40	42.2	19.0	33.2	0.84	0.14	0.36
ı	LEICESTER	3,200 1,996	86,929	43.6	55	61	42.2	20.5	33.0	0.28	0.06	0.15
ı	NOTTINGHAM - +		494,649	96.8	328	307	46.1	31.3	36.8	2.66	0.38	0.97
ı	MANCHESTER	5,108 4,486	356.099	79.4	269	210	43.5	24.0	35.2	1.95	0.13	0.33
ı	MANCHESTER	4,400	,									
ı	SALFORD	5,172	125,422	34.3	84	. 69	44.0	24.7	35.2	1.95	0.17	0.43
ı	BRADFORD	6,590	146,987	22.3	99	83	-					_
ı	LEEDS	21,572	260,657	12.1	203	133	44.0	23.0	34.6	1.45	0.04	0.10
ı	SHEFFIELD	22,830	241,507	10.6	165	137	43.0	22.7	34.8	1.28	0.10	0.52
ı	HULL	3,562	122,266	34.3	65	57	40.0	- 21.0	32.3	0.12	0.14	0.36
ı	SUNDERLAND	3,306	98,797	29.9	60	82		_	-	-		
	NEWCASTLE-ON-TYNE		128,677	24.1	91	74	42.0	27.0	34.2	1.39	0.09	0.53
Į	EDINBURGH	4,427	201,728	45.6	114	122	49.0	25.0	36.5	2.50	1.90	4.83
ı	GLASGOW	5,063	479,227	94.7	354	302	-	_	-	_	-	
ı	DUBLIN	9,745	310,565	31.9	196	162	56.8	28.0	43.6	6*44	0.33	0.84
				1					1			

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by adding 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs showed a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Week ending Saturday the 25th day of November 1871.

5				1											
H		ANNUAL	-			Th	e DEAT	ns regi	istered	in the I	Week in	relude			
	BOROUGHS, &c.  (Municipal Boundaries for all except London.)	RATE of MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhœa.	Violence.	Inquest Cases.	In Public Institutions.
I	Total of 17 Towns -	30	3570	810	741	209	86	84	12	101	126	36	114	214	497
1	LONDON	30	1863	393	411	67	60	34	4	64	44	7	57	116	302
ı	PORTSMOUTH	26	56	11	13	1	1	_	1	5	4	1	-	1	5
ı	Norwich	42	65	15	- 14	26	-	-	1		2	-	-	1	4
ı	BRISTOL	29	102	22	27	4	4	6	-	3	1	1	2	2	9
ı	Wolverhampton -	50	66	18	5	23		1	_	3	4	1	2	2	6
ı	70	25	165	52	28	6	1	2	1	5	8	2	7	14	- 14
			40	14	12	1	1	1	1	D	3	2		-4	2
	LEICESTER NOTTINGHAM	22 37	61	17	13	11	1	_			4		2	2	7
1	NOTTINGHAM	87	61	14	10		-				-				
ı	LIVERPOOL	32	307	69	76	2	4	10	2	-	22	8	20	28	54
ı	MANCHESTER	31	210	51	29	3	-	17	-	8	9	5	8	17	33
	SALFORD	29	69	16	10	8	-	1	-	1	2	3	1	6	4
	BRADFORD	29	83	28	17	-		1	1	3	4	3	4	6	6
ı	LEEDS	27	133	33	26	1	1	***	-	3	8	2	6	9	20
ı	SHEFFIELD	30	137	33	16	25	7	5	1	4	-	1	2	3	10
	HULL	24	57	11	16	2	-	_	1	1	2	2	2	2 4	5
ı	SUNDERLAND	43	82	14	19	13	3	7	-	. 1	-13	-	-	-	4
100	NEWCASTLE-ON-TYNE -	30	74	13	9	16	4		-	-	3		1	1	12
	DUBLIN - f	27	162	29	33	15	-	1	-	2	10	4	6	5	55

TABLE 5 .- DEATHS in LONDON Registered in the FORTY-SEVENTH Week of the Year 1871.

TABLE 5.—D	EATHS	III 1A	UND	UN	rie	51516	ered	. 111	the Forti-Seventh week of the Tear 18/1.
	he Veek 61-70.	Satu	In the	he W	eek	endir ber 2	ng 35, 18	71.	CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.  CAUSES OF DEATH.
	Averages of the Forty-seventh Week in the 10 years 1861-70		Deat	hs of the	Per	sons	of		Deaths of Persons of the Ages
CAUSES OF DEATH.	verage 7-seve 10 year	ALL AGES.		der	r 40.	r 60.	r 80.	and	CAUSES OF DEATH.
	Fort n the	Mean	-		under	under	unde	ars ards.	FOILVE STORY AVERT TO THE PROPERTY OF THE PROP
Mean Temperature -	42.4	Tem.	0-5.	5-20.	20 and	40 and	60 and under	80 Years upwards.	ALL Under   Value
	1531.2	1863		118	250	_	338	73	
ALL CAUSES SPECIFIED CAUSES	1520.7	1860	741		250		338	73	10. Fistula 4
I. ZYMOTIC DISEASES. ORDER 1.									13. Hepatitis 3.3   1 1 - 1 - 14. Jaundice 4.2   5 1 8 1 -
1. Small-pox	14·5 37·2	67	19 53	15	24	7	2	E	15. Liver Disease, 4c 16:0 12 - 2 6 4 - 16. Spleen Disease, 4c 2 ORDER 5.
8. Scarlet Fever (Scarlatina) 4. Diphtheria	102.0 12.1 1.3	34 4 1	21 3 1	12	1	Ξ	2 1 4	-	1. Nephritis 1 5 4 - 1 1 2 2. Ischuria 2 1 1 1 -
6. Croup	15.8	13 64 4	13 63 1	1	- 2		-	-	3. Bright's Disease (Nephria)   10·4   15 2 3 4 3 3 - 4
- Entericor Typhoid Fever - Simple continued Fever - 9. Erysipelas	8.0	27 18 14	4 8 5	8	29235	1 2	1 4	-	
10. Puerperal Fever (Metria) 11. Carbunele – – 12. Influenza – – –	4°0 °6	6 -	-	1	-	111		Ē	ORDER 6.  1. Ovarian Dropsy '9 2. Uterus Disease, &c 2'9 6 2 8 1 -
13. Dysentery	1.8 19.2 1.1	7 -	5 -		1	1111	1:		ORDER 7.  1. Synovitis (Arthritis) - '1
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	10.1	10	ī	4	3	2	-	E	ORDER 8.  1. Phlegmon 2'4
ORDER 2.		10	9	_	-	1	_		1. Frieginon 2 2 2 2 2 2 2
2. Stricture of Urethra - 3 Hydrophobia	7·5 1·3 —	5 - -	-	-	2 -	2 -	1 -		IV. DEVELOPMENTAL DISEASES.
ORDER 3. 1. Privation	*4 7:3	1 10	10	-	-	1	-	~	Order 1.  1. Premature Birth - 20.5 20 20 2. Cyanosis 2.1 2 1 1
3. Purpura and Scurvy - 4. Alco- (a Del. Tremens - holism b Intemperance -	7·3 1·5 2·7 1·5	3 1 1	3 -	-	-	1			2. Cyanol Biflda
ORDER 4.	2:5	-	-	-	-	-	_		ORDER 2.
2. Worms, &c II. CONSTITUTIONAL DIS.	-3	-	-	-	_		-		1. Paramenia 2. Childbirth (see Puer ) 5.7 4 - 3 1 3 1
ORDER 1. 1. Gout	1·4 14·9	2 8	- 1	1	- 1	1 2	1	Ę	ORDER 3.  1. Old Age 55.0 49 22 27
3. Cancer 4. Cancerum Oris (Noma) - 5. Mortification	27.6	34	1	1 -	5 - 1	19	3 9 - 3	-	ORDER 4.  1. Atrophy and Debility - 57'1 63 55 - 1 2 5 -
ORDER 2. 1. Scro'ula 2. Tabes Mesenterica	8.9	9	8	1	-	-	-	ī	V. VIOLENT DEATHS, &c. ORDER 1.
3. Phthisis 4. Hydrocephalus	18°4 170°4 25°2	16 219 27	14 5 26	17 17	102	84	11		(ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions 16.7 22 1 4 3 8 6 -
III. LOCAL DISEASES. ORDER 1.									2. Wounds 6 5 5 4 Poison 9 9
1. Cephalitis	10°1 87°6	12 54	10 1	2 2	5 8	18	25	-8	4. Poison 9
4. Insanity	28°4 2°0 °3	33 2 -	-	1 -	-	8	16	5 -	ORDER 3.
6. Epilepsy 7. Convulsions 8. Brain Disease, &c	5:7 52:7 16:8	6 61 6	1 59 2	2	1	2 -	1 2	H	(Homicide.)  1. Murder and Manslaughter 2.6 2 1 - 1
ORDER 2. 1. Pericarditis	2·4 2·2	2 4	-	=	1 3	1 1			ORDER 4. (SUICIDE.)  1 Wounds J Gunshot 1 1
8. Heart Disease, &c ORDER 3. 1. Laryngitis	6:0	6	3	5	16	28	35	4	2. Poison 1.3 5 2 3
2 Bronchitis	205°4 3°0 114°7	380 5 162	155	6	8	64	120	27	3 Drowning '9 4 Hanging 1'5 2 2 5. Otherwise '2 2 - 1 - 1
5. Asthma	16.5	23 26	8	-	6 2 1	8 9 7	17 10 10	2 -	ORDER 5. (Execution.)
1. Gastritis	2°4 5°4	2 3	-	ī	1	-	2	Ŀ	1. Hanging
3. Peritonitis	4.0 3.5 2.7 3.0	5 2	1 -	-	1	3 - 2	2 1 4		Violent Deaths (not classed)   '5
6. Hernia 7. Ileus 8. Intussusception	3.0 4.3 1.6	8 3 -	-	-	1	2 2	4	1	ascertained)
		1							

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

TABLE 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarle

TABLE 6. LONDON.—I	_	_	1											du	ring	the	Wee	k er	ding
5			Enume-	during	during	-			The	DEAT	HS TO	gister	ed in		Veek i	includ	е		
REGISTRARS' SUB-DISTRICTS.			rated Population. 1871.	Total Births di	Total DEATES du	Under 1 Year of	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhoa.	Violence.	Inquest Cases.	In Public Insti-
LONDON -			3,251,804	2119	1863	393	411	67	60	34	4	64	4	27	13	7	57	116	302
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS			561,189 751,668 333,887 638,928 966,132	307 487 202 461 662	271 432 220 424 516	56 97 43 93 104	62 102 41 91 115	87 - 14 16	9 19 4 14 14	3 9 1 6 15	1 - 2	9 15 6 12 22	2 1 1	2 12 5 8 5	3 - 1 5 4	3 - 1 3	9 11 11 17 9	26 28 15 31 16	48 86 87 71 60
WEST DISTRICTS.  St. Mary Paddington WH — St. John Paddington H — Kensington Town WL — Brompton H — St. Peter Hammersmith — St. Paul Hammersmith H— Fulham WLLLL — Chelsea South HH —		1111111	58702 38082 91583 28651 6662 36030 23378	38 10 58 24 2 25 16	27 19 48 5 1 14 19	7 1 14 - 4 6	6 2 13 1 1 4 8	111111	91	1 2	11111111		111111	1	1		10001111	3 16 2	38 14
Chelses North-west HWw - Chelses North-east L - Hanover Square - May Fair W - Belgrave HH - St. John Westminster HHH St. Margaret Westminster WW St. James's Square -	- HH	1111111	23278 21389 18700 18020 58043 88470 27640	19 6 10 2 29 21 10 4	10 13 6 6 24 18 28	1 1 2 1 3 4 6	3 2 1 2 7 - 7	11111111	1 - 2 1	111111111	111111	1 - 3 1 1 2	HILLI III	1	1		1	2 - 1 - 1	6 - - 8 2 15
Golden Square W Berwick-street St. Anne Soho HH NORTH DISTRICTS. All Souls Marylebone HH - Cavendish Square		111 111	12855 10279 17555 28574 15419	5 6 7 18 6 20	3 7 3 8 21 3 31	3 - 1 2 - 6	1 2 1 2 - 17	111	2 -	2	111	2	1111	2		111 111	-	1	4
St. Mary Marylebone H - Christehurch Marylebone - St. John Marylebone - Hampstead W HH - Regent's Park Pancras - Tottenham-court 22H -		11111111	26387 21795 33892 33110 32271 38192 29360	18 18 18 18 28 18 12	9 17 8 19 21 17 22	2 3 2 4 3 5 4	4 2 3 1 5	3 1 1 -	- 3	1	111111	2 - 1 - 2 - 2 -	1111111	ī - - 1	1111111	1	1	04   1   1   1   1   1   1   1   1   1	15
Gray's Inn Lane H - Somers Town - Canden Town W - Kentish Town W - Islington West* WHHH - Islington East Www - Stoke Newington L		111111	29216 38562 18066 68198 97801 115948 9810	21 13 44 84 81 13	26 17 36 48 64 7	9 2 6 16 24 2	3 7 6 9 7 15 8	1 3 1 -	2 1 7 3	1 1 3 1 1 - 3 1 -	111111	2 2	111111	- 8	1111111	1	3 1 2 1	4 3 8 2 -	6 9 4 4 6
Stamford Hill West Hackney Hackney WwHL South Hackney L CENTRAL DISTRICTS.  St. George Bloomsbury		11,11	6599 28076 50087 30305	11 25 17	11 41 14	1 2 2	10 8	11 4	1111	1111	1111	1 2 1	1111	5 -	1 1 1 1	1111	11111	2 1 1 2	20
St. Giles South WH		111111	17843 19089 16497 11326 9831 9376 10711	13 14 14 11 1 2 2	19 6 7 5 5 14	1 1 1 8	3 - 2 1	111111	2 1 - 1		1	1		1	1111111	1111111	2	ī - - 1	6 - 8 - 9
St. George-the-Martyr HHH St. Andrew East Holborn W Saffron Hill - St. James Clerkenwell W -Amwell Clerkenwell - Pentonville - Goswell-street - City-road WHHL - Whiteross-street -	_	111111111	20521 13528 9051 18912 16878 13293 16220 12156 18291 13790	14 9 4 9 15 8 21 8 23 4	20 7 6 13 5 13 10 5 13 7	53122333323	5 - 2 1 4 3 - 1 - 2	111111111		1111111111	111111111	1 - 1 2 1		1	1	1111111111	1 - 2 - 1 - 1	2 1 - 1 2 - 2 - 2 -	1 2
Finsbury  St. Botolph East London HH Cripplegate  St. Sepulchre H  St. Bride W  - Castle Baynard - Christchurch - Queenhithe - Allhallows Barking Broad Street		1 1 1 1 1 1 1 1 1	10732 14484 13639 7562 11184 4389 6308 4744 5694 7838	5 8 5 3 7 3 1 2 1	7 5 19 5 - 1 6 5 5	1	1 2 2 - 1 3	1111111111		1111111111	111111111	111111111	11111111	1	1 1111111111111111111111111111111111111		4	1	16

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W—Workhouse;

II—Hospital;

L—Lunatic Asylum;

w—A Workhouse not belonging to the district in which it is situated.

The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

† Officials of Public Institutions are not inc

<sup>†</sup> Officials of Public Institutions are not included.

'EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLENCE, &c., registered in each Sub-district saturday, 25th November 1871.

aturday, 25th November 1871.																	
		during	during				The I	DEATE	s reg	istere	d in		eek ir	elude			
REGISTRARS' SUB-DISTRICTS.	rated Population. 1871.	Total BIRTHS du the Week.	Total DEATHS duthe Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch — — — — — — — — — — — — — — — — — — —	12429 16545 27832 26944 24153 19257	9 12 17 20 20 22	11 13 18 14 27 11	2 3 3 2 4 4	1 1 2 3 13 1	- 1	1	1 2	11111	3		11111	111111	111111	211111	8	3 - 15 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	24 37 17 13	21 24 11 21	9 3 4 9	3 11 - 3	1	3	1	-	1 -	-	1 -	1	1	4	9 2 -	15
Artillery Whiteohapel - Spitalfields	6651 15844 15550 11434 7323 10381 9149	3 10 9 8 9	4 14 17 14 17 4 8	- 4 2 4 1 1	2 4 3 1 1	1 1 - 2	1	2	111111	1111111	- 1	1111111	1114111	1111111	2 1 5 -	3 1 5 -	6 15 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	15 14 5	8 12 9	1 2 1	1 2	-	1 -	-		1 1		-	-		1 -	1	- - 4
Shadwell W	11623 15930 30025	13 21	4 5 14	1 3 8	1 1 2	1 3	ī	= -		-	1.	=				1	=
Mile End Old Town West Mile End Old Town East WwH	38126 55020	31 35	21 88	6 4	8	2	-	-	-	1 4	=	-	1 2	-	1 ~	-	3
Bow WwHLt	67777 48500	54 32	49 20	10	18 2	1	2 3			1 -	-	2 -	-	-	1	4 -	9
SOUTH DISTRICTS.  Christchurch Southwark W	14547 15667 20430 16694 18959 23673 48232 16786	5 11 9 15 15 14 38 18	11 13 9 8 15 19 24 8	- 1 2 6 5 5 1	6 2 1 2 2 4 3 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 2		1 - 1 - 1 2		1111111	1111111	11111111	1111111	1 1 1 1 1 1 1	31 - 1
St. Olave Southwark H St. John Horsleydown W St. Mary Magdalen W St. James Bermondsey Rotherhithe W	4157 10595 16785 15707 47921 25873	2 11 7 10 47 16	12 9 5 9 42 10	1 10 1	2 1 4 8		1.9,1,1,9,1	1 1 8 1	111113	- 3	HILLI	111111	111111	111111	21	1 2 -	11 4 3
Waterloo-road 1st H Waterloo-road 2nd H	14086 18453 19470 35831 41284 31213 35431 12534	5 21 17 25 29 20 21 5	15 7 14 24 17 14 19 8	5 4 3 6 5 4 2	1 1 7 5 4 7	1 - 4 -	1 - 111 - 1	1117/1311	11111111	4 1 2 1 -	11111111	1 - 1	1	1 1 1 1 1 1	1111111	111111111111111111111111111111111111111	27.1254.1.131
Clapham         HL         -         -         -         -         -         Wandsworth         -	27348 53988 19797 9438 14479	17 44 9 7 10	15 34 11 8 5	1 8 1 2 2	8 2 3 -	11111	3 -	3 -	11111	1	00000	11111	- - - 1	11111	1 00 1 1 1	1 -	1441
Dulwich Camberwell WL†L† St. George Camberwell	4041 31251 42159 33851	1 21 28 13	11 22 20	- 4 6	1 4 4 2	1 4	1111	1	11111	1111	1.1.1.1	1111	1	1114	1111	ī	2 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	84 2 13 7	9 1 9 18	5 1 2 1	1 - 8 10	1111	1111	1111	1111	1111	1111	1 - 2	1	1111	1111	1111	10
Eltham - Lee Lee Lewisham Village W Sydenham	4528 16430 11508 19016	2 7 10 11	1 5 7 4	1.	3 3 1	1	1411	1111	-	F1111	1111	1111	1111	11.0	1 1 -		2 -
Charlton H Woolwich Dockyard	9503 17229 18319 13028 15290	8 11 17 16 13	5 9 5 10 5	4 2 3 -	1 2 -	11111	11111	2	THIE	111-	11111	11111		11111		2 -	11111

The following are Outlying Workhouses (indicated in the Tables by w):

Holborn Workhouse is in Hoxton New Town sub-district.

London City " Mile End Old Town Eastern sub-dist, and Bow sub-district.

Stepney - " Bow sub-district.

sub-district. | Stepney - ,,
† Lunatic Asylums where paupers are admitted.

TABLE 7.- METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 25th November, 1871.

[Under the Superintendence of the Astronomer Royal.]

90	_					-					3										
					ouozo		:::	:	:	::		56		nean	dry dry nean five	and	well h by	rage srage	d as	bout per-	sased was
	RAIN.	Collected	Gauge		0	Inches	888	0.04	00.0	90.0	Sum 0.10	25		ove the rate with t	eter, the	the dry	P.M., as	ical observa- December 31.	nderstoo	self-registering lepth of about der the super of LieutCol	the west; incresth; and
			Robinson's.	Amount of	Movement of Air each day.	Miles.	52 165 174	66	36	56	mnS 689	24		feet abc	The observations are taken at addings of the barometer, the dry atmes, are converted into mean James Glaisher, F.B.S., from five or north 1848. The mean daily	values of	; and 9h.	rmometr ing 1863,	e to be u	use of se at the de ered und	nning of on the 21 on the 23
ı		ters.	-		Mean of 24 Obs.	lbs.	0.0	0.0	0.0	0.0	:	23		be 159 to be	obser ss of these, are	daily urth	od in n. P.M.	he the	ons ar	y the Ship, regist	e begi P.M. C
ı		nemome		on squar	Least.	lbs.	0.00	0.0	0.0	0.0	:	22		ed to	The se tim	mean les. Fc	xhibite on; 34	from to 50 year	servati	uined 1 Police tts are	at the by 9h by 3h
1	WIND.	from A		Pressure on squarefoot.	Great-		0.1	0.5	0.1	0.3	:	21		nsidere	neter. if the rat the	those	bers e. M.; nc	laisher n the	cal ob	ascerts rpion " rumen	n Polic 7.19 in. 89 in. 3.74 in.
		As deduced from Anemometers	Osler's.	1	P.M.	!	Calm & SSE. S. & SSE. SE.	SSW. &	WSW. &	SE. N., E., & ENE.	WSW.	20	NOTES.	neter is co	glass standard barometer.  Jh. P.M. The means of the remometer, observed at the remometer, observed as the remometer of corrections deduced by	duced from	or the num	d by Mr. Greenwich, i	meteorologi nt to midni	Thames is f the "Scor f these inst	Metropolita sed from 3 sased to 29 ceased to 2
	I			General Direction.	A. M.		. *	SE. & S.	WNW. &		SSE. &	19		The height of the cistern of the barometer is considered to be 159 feet above the mean	of the Royal Society's finit glass standard barometer. The observations are taken at the Landau Royal Society's finit glass standard barometer, the dry the Landau Royal standard the West thermometer, observed at these times, are converted into mean them to the West thermometer, observed at these times, are converted into mean daily values by the application of corrections deduced by James Claister, Fix. I from five daily values by the application of corrections are deduced by James Claister, Fix. I from five the converted the converted of the converted that the converted the converted to the co	idity are de	for mean daily temperature of the air, or the numbers exhibited in column h, include the observations of the dry thermometer, read at blank, noral; %h.p.m., and 9h.p.m., as well as the results deduced from the maximum and minimum thermometers, as determined by	he self-easiering theremoneters, the proper corrections being ship to the self-easiering theremoneters decembed by M. Glasher from the thermonetrical observations taken at the Royal Observatory Greenwich, in the 60 years only a December 31, tions taken at the Royal Observatory Greenwich, in the 60 years only a December 31, tions taken at the Royal Observatory Greenwich and that is read in high self-easier and the formal processis with that its read is higher and —	s of all the room midnigh	"The temperature of the water of the Thames is ascertained by the use of self-registering thermometers, suspended from the side of the "Scorpion" Police Ship, at the depth of about face belong the surface. The readings of these instruments are registered under the superingent of the supering of the policy of the spin, by permission of LieutCol.	Honderson, R.E., C.B., Commissioner of Metropolitan Police.  The reading of the barometer increased from 180-19in, at the beginning of the week to 50-78 in. by 160. A.m. on the 180-18 in decreased to 29 86 in. by 90. P.M. on the 21st; increased to 29 86 in. by 90. P.M. on the 21st; increased to 29 78 in. by 180. A.M. on the 28d; decreased to 29 78 in. by the end of the week.
	Degree	of Hu- midity,	300	_	sented by 100.		47 80 72 22	87	66	94	98	18		cistern o	ty's flint F.M.; and he wet the application	e of hum	dry ther	hermome air is tha Royal Ob	the result day, or f	of the war of the war	B., Comme baron f. on the control of the world of the wor
Under the Superintendence of the Astronomer Koyal.		Between	mean tem-	the day and mean tem-	perature of the same day on an average of 50 years.*	c	-111.7 - 5.4 - 8.9	2.8	6.9	1 1 5 8-	0.4 -	17		sht of the	of the Royal Society's flint 9h. A.M.; noon; 3h. P.M.; and thermometer, and the wet the daily values by the application	and degre	daily tem ns of the sults dedu	gistering tree of the	ung the ry werage. 7 so the civil	The temperature of the thermometers, suspended feet below the surface.	n, R.E., C. tding of t y 10h. A. p. by 9h. y the end
onome	DIFFERENCE	Point		.1	Least.	-	9.04	1.0	0.0	0.0	1.4	16		he heig	A.M.; 1 mome y value	rs, observations	mean ervatio	self-re peratu	In read n the a lying t	he ten	nderso he res 28 in. 1 30 · 01 in
ie Astr	DIF	Between Dew Point	Temperature and	Air Temperature	Great-	(	10.1	8.1	1.4	& 01 & 10	7.3	15		Torol					tha		
12 fo 90		Betwe	Te	Air T	Mean daily value.	(	5.6	3.5	0.3	7. H	8.9	14			out the		radually	6h. P.M		prevalent till	and thir y.
ntenden	1		In the Water of the Thames at	Greenwich, by self-registering	Thermometers.	. (	38.0	36.5	96.0	36.0	9.98	13			through	٠	iorning, g	Thin rain fell from 6h. P.M.		cloud preva	ob. A.M., ing the da
Super			In the Th	Greenv self-reg	Thermore Highest.	- (	40.9	40.0	39.8	39.8	40.4	12	HER		loudless very de	A very fine day.	nd in m	in rain		Jo	about sent dur
nder the	TERS.	Lowest	Grass, as	shown by a self-	register- ing Minimum Thermo- meter.		20.5	22.7	30.0	24.8	23.8	17	ATMOSPHERE.		enerally c	. A very	A little cloud in morning, gradually Very fine.		hout.	le amoun	Frozen rain fell about 9h. A.M., and thin A.M. Rog prevalent during the day.
r [n	THERMOMETERS	Highest in	shown by	tering Thermo-	meter with blackened bulb in vacuo, placed on the Grass.	Ī	54.2 64.1 68.4	58.5	50.0	38.2	54.7	10	AND		Hoar frost in morning. Generally cloudless throughout the as night.	tle cloud present at times.		ut. Slight fog.	Very foggy throughout.	reast till noon. 'Variable amounts ening; then again cloudy.	
		Dew	Point.	Mean				31.9	33.9	35.0	30.4	6	SKY		in mo	nd prese	in mo	east throughout.	Very fo	ill nbor then a	throughout. till about 3h.
	READINGS OF			Mean	daily value.		30.1		34.2	36.5	34.3	00			Er frost Fog pre	ittle clor	Hoar frost in morning. increasing towards night.	ereast th	ercast.	ereast t	ercast tl 7 rain til
			Dry.	Range	in day.			10.1	6.9	3.9	10.5	1-			Hor day.	Alit	Ho	Over	Over	Over the eve	Over misty
	-		D		Low- est.		28.9	29.8	31.8	31.2	29.0	9						out of			
	-		-		High-		36.9	39.9	38.7	41.9	39.6	vo .	CITY.		,			apparatus out		-	
	BABO-	Mean	reading		and reduced to 32 degr. Fabren-			29.906 39.9	29.983	29.804	29.978	4	ELECTRICITY							-	
	Moon.		-	Phases	Moon.	-	<u>E</u>		Equator	::	:	00	E					Electrical order.			47000
					DAY.	ER.		V 22	23	42.22		lumns	-	1 2	19	20	12	22	. 83	24	25
			1	18/1	MONTH AND DAY.	NOVEMBER.	SUNDAY	WEDNESDAY	THURSDAY.	FRIDAY SATURDAY.	MEANS	No. of Columns	DATE.	NOVEMBER	SUNDAY .	MONDAY .	TUESDAY .	WEDNESDAY	THURBDAY.	FRIDAY .	SATURDAY.

# WEEKLY RETURN

# BIRTHS AND DEATHS IN LONDON

# AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 48. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, DECEMBER 2. [Price 1d.

General Register Office, Somerset House, 4th December 1871.

During the week ending Saturday the 2d instant, 5009 births and 4291 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week in these towns was at the

rate of 31 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality in the Seventeen English Cities and Towns were as follow:—London 31 per 1000; Portsmouth 31, Norwich 42, Bristol 28, Wolverhampton 56, Birmingham 23, Leicester 31, Nottingham 44, Liverpool 30, Manchester 35, Salford 36, Bradford 26, Leeds 31, Sheffield 39, Hull 24, Sunderland 45, and Newcastle-upon-Tyne 32. The fatal cases of small-pox in these seventeen towns, which in the three previous weeks had been 153, 197, and 209, further rose last week to 237; of these, 78 occurred in London, 43 in Sheffield, 26 in Wolverhampton, 22 in Norwich, 19 in Nottingham, 10 in Salford, 8 in Newcastle-upon-Tyne, 7 in Sunderland, 6 in Leeds, 5 in Bristol, 4 in Hull, and 3 in Birmingham. These numbers showed a considerable increase in Sheffield, Nottingham, and Salford, while there was a marked decline in Newcastle and Sunderland. The annual death-rate from this disease was equal to 20 per 1000 persons living in Wolverhampton, 14 in Norwich, 11 in Nottingham, 9 in Sheffield, 4 each in Salford and Sunderland, 3 in Newcastle, 2 in Hull, and one each in Bristol and Leeds.

Nearly all the 43 deaths from small-pox in Sheffield were unvaccinated cases. The registrar of the Ecclesall Bierlow sub-district appends to his weekly return the following remarks: "Of the eight deaths from small-pox, five were of unvac "cinated children, four being the only unvaccinated children in their several "families. I have registered 13 deaths from small-pox during the past two "months; but not one vaccinated child has died. This is the more remarkable "as about 97 per cent. of the children born in the district during the last four

" years have been vaccinated."

Small-pox has been fatally prevalent during the past two months in Devonport, the 76 deaths referred to that disease showing an annual death-rate for that period of 9 per 1000; in East Stonehouse and Plymouth the fatality from the disease was at the annual rate of 3 and 2 per 1000 during those months, and has shown an increasing prevalence during the past few weeks.

In Edinburgh the annual rate of mortality from all causes last week was 33 per 1000 persons living, in Glasgow 31 per 1000, and in Dublin 24; in Dublin 15

deaths were again referred to small-pox.

In Paris 800 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 23 per 1000 of the estimated population. In Brussels 87 deaths occurred in the week ending the 25th ultimo, and the annual death-rate was 24 per 1000. In Berlin during the week ending the 30th ultimo 609 deaths were recorded (including 139 from small-pox), showing an annual rate of 35 per 1000. In Vienna the 352 deaths in the week ending the 25th ultimo gave an annual rate of 30 per 1000. In Rome 159 deaths were registered in the week ending 19th ultimo, and the annual death-rate was 37 per 1000.

In the City of New York 413 deaths were registered in the week ending November 11th, and the equivalent annual rate of mortality was 23 per 1000.

In Bombay the deaths registered during the week ending November 7th were 281, and the mortality was at the annual rate of 18 per 1000. In Madras the 222 deaths in the week ending 20th October showed an annual death-rate equal to 27 per 1000 of the population.

[48.] 3 B

In LONDON 2211 BIRTHS and 1918 DEATHS were registered last week. After making due allowance for increase of population, the births were 12 below, while the deaths exceeded by 224, the average numbers in the corresponding week of the last ten years. The annual death-rate in London, which in the three previous weeks had been 22, 26, and 30 per 1000, further rose to 31. The rate was 26 in the West District, 28 in the South, 31 in the Central, 33 in the North, and 35 in the East of London.

The 1918 deaths in London included 78 from small-pox, 83 from measles, 39 from scarlet fever, 10 from diphtheria, 72 from whooping-cough, 39 from different forms of fever (of which 12 were certified as typhus, 19 as enteric or typhoid, and 8 as simple continued fever), and 16 from diarrhoa; thus to the seven principal diseases of the zymotic class 337 deaths were referred, against 241, 263, and 280 in the three preceding weeks. Excepting a decline in the fatal cases of fever, the deaths resulting from each of the six other diseases showed an increase upon those in recent weeks. The fatality from measles was greatest in Kensington, Islington, Bow, Bermondsey, and Wandsworth; from scarlet fever in Kensington, Belgrave, Islington, Hackney, and Peckham; and whooping-cough in Belgrave, Marylebone, Islington, St. George-in-the-East, and Lambeth.

The deaths from small-pox in London, which in the two previous weeks had been 76 and 67, rose to 78, a higher number than has occurred in any week since the end of September, and exceeding by 59 the corrected average weekly number in the ten years 1861-70. In the four small-pox hospitals at Hampstead, Islington, Homerton, and Brixton, 20 deaths were returned, against 26 in each of the two preceding weeks. The fatal eases were most numerous and showed an increase in Bethnal Green, Bow, and Poplar.

The mean temperature at the Royal Observatory showed an increase of 2°1 upon that in the previous week, but was still 5°.2 below the average; during the past four weeks there has been an average deficiency of no less than 6°.4. this fact may directly be referred the considerable excess of deaths in the past two weeks. The fatal cases of bronchitis, which in the three previous weeks had been 180, 287, and 380, further rose to 457, of which 201 were of children under five years of age, and 174 of persons aged 60 years and upwards.

To different forms of violence 50 deaths were referred; of these, 44 were the result of accident or negligence, including 16 from fractures and contusions, 8 from burns and scalds, one from drowning, and 18 from suffocation, of which 16 were of infants under one year of age. Of the deaths from fractures and contusions, 3 were caused by horses or vehicles in the streets. Five cases of suicide, and one

of infanticide, were registered during the week.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 29.81 in.; the highest reading was 30.16 in. on Saturday morning. and the lowest 29.65 in. on Thursday afternoon. The mean temperature of the air was 36° 4, or 5° 2 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was below the average on each day of the week; on Sunday, 26th ultimo, it was 36°.7, and 1°.9 below the average, while on Saturday it had fallen to 32°.6, and the deficiency was 9°·6. The highest day temperature in the shade was 42°·9 on Sunday, the lowest night temperature 28°·5 on Saturday; the entire range of temperature in the week was, therefore, 14°·4. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo. placed on the grass, was 58° 5 on Friday. The difference between the mean dewpoint temperature and air temperature averaged 3°.0. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 38° 0 last week. The mean degree of humidity of the air was 89, complete saturation being represented by 100. The general direction of the wind was N.N.E. and N.E., and the horizontal movement of the air in the week averaged 10 miles per hour. Rain fell on Sunday, Monday, Thursday, and Friday, but only to the amount of '12 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 35°·3 in Wolverhampton, to 39°·0 in Newcastle; the lowest recorded night temperature was 27°·1 in Woverhampton, and the highest day temperature in the shade 46° 0 in Bradford. Rather more than an inch of rain

fell last week in Norwich and Newcastle, and in the other towns the amounts varied from '02 of an inch in Manchester, to '43 in Sheffield.

In Centigrade degrees the mean temperature of the air last week at Greenwich was 2°·4, or 2°·9 below the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 6°·1, the lowest night temperature showed 1°·9 of frost, and the highest temperature in the sun was 14°·7. The wind blew at the rate of 16 kilometres an hour, and the rain-fall measured ·30 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 216,805 cubic metres, and at Barking 270,130 cubic metres, equivalent to about as many tons by weight.

Note.-A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FORTY-EIGHTH Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1871
TOTAL Births	1791	1834	1938	1963	2071	2128	2017	2152	2141	2178	2021 · 3	2211
Males Females .	880 911	971 863	1011 927	1016 947	1058 1013	1085	1015 1002	1117 1035	1125 1016	1122 1056	1040·0 981·3	1075 1136
TOTAL Deaths	1424	1745	1442	1624	1368	1459	1588	1561	1705	1482	1539.8	1918
Males Females .	721 703	858 887	747 695	826 798	707 661	714 745	826 762	749 812	850 855	743 739	774·1 765·7	935 983

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	Sept.	Sept.	Sept.	Sept.	Oct.	Oct. 14.	Oct. 21.	Oct. 28.	Nov.	Nov. 11.	Nov. 18.	Nov. 25.	Dec.
Total Deaths	1422	1422	1411	1390	1283	1275	1291	1364	1400	1365	1626	1863	1918
Deaths under 5 years of age - Deaths 5—20	767 94	717 112	686 97	590 107	539 121	497 103	492 100	527 115	552 129	571 106	688 119	742 118	813 121
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	189 161 160 51	178 223 157 35	201 203 181 43	206 245 202 40	178 212 183 48	202 203 221 49	197 206 238 58	213 230 236 43	201 224 230 64	206 209 221 52	222 239 296 62	250 342 338 73	233 315 359 77
Deaths from Small-pox , , Measles , , Scarlet Fever - , Diphtheria - , , , Whooping-cough , , Typhus fever - , , Enteric (or Ty-)	81 21 26 3 26 8	57 16 32 8 32 11 25	89 23 27 7 24 3	51 18 36 6 30 8	72 25 38 5 36 4	61 34 29 9 27 6	53 34 40 6 23 11	61 36 31 6 40 4	61 45 38 4 51 4	54 42 32 5 42 6	76 49 40 6 36 5	67 60 34 4 64 4	78 83 39 10 72 12
phoid) fever - \( \)  """  """  """  """  """  """  """	11 293 24	11 268 15	6 205 2	8 153 7	7 80 1	12 69 2	9 46 1	10 32 1	7 19	7 21 2	7 17	13 7	8 16
" Phthisis " Bronchitis " Pneumonia - " Heart Disease -	153 47 38 49	146 58 39 62	139 62 37 54	166 83 39 71	143 84 56 60	140 113 62 73	147 120 80 58	157 179 84 74	166 190 81 71	162 180 105 61	160 287 115 85	219 380 162 88	168 457 132 103
Mean Temperature of the Air	€0.2	62.6	53.6	50.2	51.9	45.5	53.5	46.9	47.3	39.2	35.3	34.3	36.4
Mean Temperature of the \\ Water of the Thames -\}	64.6	63.4	60.1	56.2	53.7	52.7	51.5	51.6	49.8	46.6	42.1	38.5	38.0
Humidity of the Air	78	71	70	88	80	80	91	90	81	84	84	86	89
Rain-fall in inches	0.66	0.00	0.10	3.34	0.77	0.00	0.55	0.01	0.04	0.03	0.29	0.10	0.12

TABLE 3.—BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 2d day of December 1871, in the following large Towns.

		2d day of	Decem	per 1871, 1	n the follo	wing ia	irge 10	WNS.			
CITIES	Area	POPULATION	Persons	Births registered	DEATHS registered	TEMPERA (FA	ATURE OF		TEMPERA- TURE OF THE AIR. (CENTI-	RAIN	FALL.
BOROUGHS.  (Municipal Boundaries for all except LONDON.)	in Acres.	estimated to the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 2d Dec. 1871.	during the Week ending 2d Dec. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Centi- metres
Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	5009	4291	47.0	27.0	37.0	2.78	0.31	0.79
LONDON	77,997	3,263,872	41.8	2211	1918	42.9	28.5	36.4	2.44	0.15	0.30
PORTSMOUTH	9,513	113,450	11.9	73	67	43.8	28.4	36.2	2.20	0.03	0.08
Norwich	7,472	80,533	10.8	55	65	42.5	30.0	36.4	2.44	1.06	2.69
BRISTOL	4,688	183,298	39*1	129	97		- 1	-		-	
WOLVERHAMPTON -	3,387	68,476	20.2	56	74	41.8	27.1	35.3	1.84	0.03	0.08
BIRMINGHAM	7,831	344,980	44.1	235	152	43.0	30.7	36.6	2.55	0.13	0.33
LEICESTER	3,200	95,882	30.0	82	57	43.0	28.0	36.1	2.28	0.53	0.28
NOTTINGHAM	1,996	86,929	43.6	57	73	42.7	28.5	36.1	2.28	0.54	0.61
LIVERPOOL .	5,108	494,649	96.8	327	284	43.0	31.0	36.6	2.22	0.14	0.36
MANCHESTER	4,486	356,099	79.4	278	238	41.7	33.0	37.4	8.00	0.05	0.02
			34.3	105	87	44.3	28.7	36.6	2.55	0.09	0.23
SALFORD	5,172	125,422 146,987	22.3	110	72	46.0	30.2	37.9	3.58	0.08	0.50
BRADFORD	6,590	260,657	12.1	199	154	43.0	34.0	38.0	3.33	0.50	0.21
LEEDS	21,572	241,507	10.6	193	179	41.2	32.2	37.1	2.84	0.43	1.09
SHEFFIELD .	22,830 3,562	122,266	34.3	77	56	45.0	29.0	37.1	2.84	0.10	0.25
Hull .		,									
SUNDERLAND	3,306	98,797	29.9	76	85	-	00-0	2010	0100	1.22	3.10
NEWCASTLE-ON-TYNE		128,677	24.1	91	78	43.0	33.0	39.0	3.89 2.58	0.80	2.03
EDINBURGH	4,427	201,728	45.6	128	128	43.0	27.0	36.1	3.58	0.03	0.08
GLASGOW	5,063	479,227	94.7	384	284	47.0	27.5	37.9	3°28 4°17	0.03	1.47
DUBLIN	9,745	310,565	31.9	143	143	46.0	31.0	98.9	4.17	0 08	1 97
		4	1		1	1	1	-		-	

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by addin 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs showe a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Weel ending Saturday the 2d day of December 1871.

			maning Ru												
r		ANNUAL			:	Th	e DEAT	rns regi	stered	in the	Week in	nelude			
	BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public
	Total of 17 Towns -	31	3736	807	804	237	116	95	18	142	123	48	108	216	50
1	LONDON	31	1918	437	436	78	83	39	10	72	. 39	16	50	123	296
1	PORTSMOUTH -	31	67	9 -	23	1	3	-	2	1	2	-	-	3	3
1	Norwich	42	65	11	15	22	-	1		1	1	-	1	2	4
ı	BRISTOL	28	97	16	22	5	2	2	. 3	1	1	4	1	1	1
ı		56	74	16	7	26	i	_	_	5	3	-	-		4
1	WOLVERHAMPTON -	23	152	37	31	8	1	5	1	10	-	5	10	17	18
1	BIRMINGHAM	31	57	25	. 9	_	2	1		~	2	-	7.	2	
	LEICESTER	44	73	7	18	19	-	-	-	-	4	-	1	1	1
ł				0.4	jen.	- 5.	6	9	2	14	20	8	13	16.	.54
ı	LIVERPOOL	30	284	60	71 42	0	1	15	2	12	14	4	10	21	3
	MANCHESTER -	35 36	238 87	-15	23	10	-	2	1	6	- 3	2	5	-6	1
ı	SALFORD	26	72	17	20	-	_	ī	1-	8	1	1	2	2	1
	BRADFORD			11								2	6	9	1
1	LEEDS	31	154	37	31	6	-	1	-	6	6	4	2	8	2
1	SHEFFIELD	39	179	37	21	43	5	9	-	5	11	1	1 7	-1	1
	HULL	24	56	12	10	4 7	4	8	-	1	14		3	3	1
	SUNDERLAND	45	85 78	14	13	8	2	2		_	2	1	3	3	3
-	NEWCASTLE-ON-TYNE -	32	78	19	10	- °							-		-
	DUBLIN	24	143	24	30	15	. 1	3	-	-	7	5	1	1 12	2

TABLE 5 .- DEATHS in LONDON Registered in the FORTY-EIGHTH Week of the Year 1871.

							_								_		_
	r the Week 1861-70.	Sat	În t urda	he W	eek eem	endi ber 2	ng , 187	ι.		ek 1-70.	Satu	In th	ie W	eek (	endir er 2,	1871	
	of th th W		Deat	ths o	f Per		of			of the th Week rs 1861-70		Dea	ths o	f Per	sons	of	
CAUSES OF DEATH.	Averages of t Forty-eighth V in the 10 years 18	ALL	Un		6	90.	80.	-5	CAUSES OF DEATH.	Averages of t Forty-eighth V 1 the 10 years 18	ALL	Une	1	60.	60	80.	
	Aver orty-	AGES.	2		under	under (	ole.	s and is.		Ave orty-	AGES.	20		under 4	under 6	er.	and is.
	44	Mean Tem.	5.	20.	and ur	and ur	and ur	. Years upwards		- i	Mean Tem.	ı	0,		and ur	and ur	Tears upwards,
Mean Temperature -	40.9	36.4	0-2	5-2	20 a	40 в	60 a	80 m	Mean Temperature -	40.9	86.4	0-5.	5-20	20 and	40 a	60 a	80 m
ALL CAUSES	1539.8	1918	813	121	233	315	359	77	9. Stricture of Intestines -	1:2	-	-	-	-	-	-	-
SPECIFIED CAUSES	1532.6	1915	810	121	233	315	359	77	10. Fistula	5.2	7	1	1	1	2	3	E
I. ZYMOTIC DISEASES.									13. Hepatitis	3.2	4	1	-	1	1	2	ĩ
ORDER 1.  1. Small-pox	17:3 43:1	78 83	24 73	25 9	25	4	-	-	15. Liver Disease, &c 16. Spleen Disease, &c	15*8	16	Ē	-	1	- 8	5	
3. Scarlet Fever (Scarlatina) 4. Diphtheria	99.3	78 83 39 16	23 6	14 4	2	-	-	-	ORDER 5.  1. Nephritis	1.2	8	1	-	1	1	÷	1-
6. Croup 7. Whooping-cough	2°0 16°0 40°5	11 72	10 67	1 5	E	-	=	E	3. Bright's Disease (Nephria) 4. Diabetes	8°5 2°2	18	1	-	2	12	3	=
8. Typhus	62.8	12 19	3 2	5	4 7	3	2	-	5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	1.4 8.0	3 - 10	1 -	-	- 2	1 5	1 - 3	E
- Simple continued Fever -) 9. Erysipelas 0. Puerperal Fever (Metria)	11.4	7 10	5 2	1 - 1	- 8	3	2 2	-	ORDER 6.							-	
1. ('arbunele	1.3 1.4 1.9	2 2 2	ī	-		1 2	1 -		1. Ovarian Dropsy 2. Uterus Disease, &c	3.9	4		-	2	ī	ī	E
4. Diarrhœa	17:3	16	11	Ē	2	-	2	1	ORDER 7.  1. Synovitis (Arthritis) -	.3	1 3	I	-	-	1	-	-
6. Ague	1.5 9.9	1 -	=	1	- 8	-	1	-	2. Joint Disease, &c ORDER 8.	2.0	3	-		1	1	_	_
9. Other Zymotic Diseases - ORDER 2.	-4	i	1		-	_	Ξ	=	1. Phlegmon	1.6 1.6 2.1	4 1 2	1	-	1 -	-	2	-
1. Syphilis 2. Stricture of Urethra -	9.1	6 -	5 -	2	1 -	-		-	3. Skin Disease, &c IV. DEVELOPMENTAL	21.		2	_	_	-		_
3. Hydrophobia 4. Glanders	-1	-	-		E	=	-		DISEASES. ORDER 1.								
ORDER 3. 1. Privation	°9	10	10	-	-	-	5.1	-	1. Premature Birth	21.3	30	30	-	-	-	-	-
3. Purpura and Scurvy - 4. Alco-\alpha Del. Tremens -	6.7	1 -	-	1 -	-	-	-	-	3. Spina Bifida 4. Other Malformations -	1.8 15.4	1 1 14	1 1 14	-	-	-	-	-
ORDER 4.	2,5	2	-				_	-	5. Teething Order 2.		17	12	_				
1. Thrush 2. Worms, &c	2:4	2	2 -	-		_			1. Paramenia 2. Childbirth (see Puerperal) Fever)	7.1	11		1	8	2	_	
CONSTITUTIONAL DIS. ORDER 1.									ORDER 3.	F0.3							
1. Gout	1·7 12·1 27·2	10 27	ī	-	1 2	3 2 13	1 6 12	H	1. Old Age ORDER 4.	26.1	62		_	-	_	27	35
4. Cancrum Oris (Noma) - 5. Mortification	3.8	3	Ξ	-	-	ī	1	ī	1. Atrophy and Debility -	58°4	50	46	-	-	2	2	-
ORDER 2.	7.5	4	2	-	-	. 2	-		V. VIOLENT DEATHS, &c. ORDER 1.								
2. Tabes Mesenterica	17 2 163·3 26·4	24 168 30	23 11 23	1 16 2	81	51	9	-	(ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	16.2	16	L	_	6	3	5	2
III. LOCAL DISEASES.		-	-	-			Ţ		2. Wounds 3. Burns and Scalds 4. Poison	1.1 7.7 1.8	8	3	4	-	E	ī	A
ORDER 1.  1. Cephalitis	11.9	18	14	1	3 4	17	11	-	5. Drowning 6. Suffocation	12.7	1 18	17			1 -	=	1
2. Apoplexy	36.8 28.8 1.5	38 29 2	5 -	1 -	1	8	17	4	7. Otherwise	5.3	1			_	_	-	
5. Chorea	5·3 49·1	- 8 43	3 41	1	-	3	1	=	(Homicide.)	.0.0		Į.					
8. Brain Discase, &c ORDER 2.	18.0	23	4	1	3	5	6	2	1. Murder and Manslaughter ORDER 4.	2.5	1	1				_	
1. Pericarditis 2. Aneurism	2.0	1	-	1 -	1	-	-	-	(SUICIDE.)  1. Wounds {Gunshot - Cut, Stab -	*3	_	_	_	_	-	_	
3. Heart Disease, &c ORDER 3.	67.0	103	2	9	19	39	30	4	2. Poison	1.1 6	1 2		-	111	ĩ	-	-
1. Laryngitis 2. Broughitis	7°4 221°3 2°9	4 457 5	201 -	1 1 -	11 2	70 2	156	18	4. Hanging 5. Otherwise	*6 *5 *9 *2	1 -	-		-	E	1	
4. Pneumonia	2°9 108°4 16°8	132 20	87	5	10	16 10	1 13 8 9	1 1 2	ORDER 5.								
6. Lung Disease, &c ORDER 4. 1 Gastritis	14.9	39	17	-	5	6	9	2	(EXECUTION.)  1. Hanging		-	-	-	_	-	-	-
2. Enteritis	1°2 4°3 4°5	7 2	1	1 -	2	1	2	ì	Violent Deaths (not classed)	-8	-	-	-	-	-	-	-
4. Ascites	2°7 2°8 3°4	1	=	=		- 2	1 1 3		Sudden Deaths (Cause un-	2.4	1	1	-	-	-	-	E
6. Hernia — — — — — — — — — — — — — — — — — — —	3°4 3°3 •4	5 -	=	=	=	2 -	- -	3 -	Causes not specified or ill-	4.8	2	2	-	H	-	-	-
N. TV	"	!	1 22	42 -	_				ne other cases, do not always suc				hoth	or th	0.000	o ia	'

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

408 Population, Total Births and Deaths, and Deaths from some Zymotic and other Carl

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

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	Enum 0	during	during				The l	DEAT	ns reg		d in t	he We	eek in	elude	1		
REGISTRARS' SUB-DISTRICTS.	Enumerated Population, 1871.	Total BIRTHS du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Searlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enteric (or Typhoid) Fever.	Simple con-	Diarrhea.	Violence.	Inquest Cases.	(In Public Insti-
LONDON	3,251,804	2211	1918	437	436	78	83	89	10	72	12	19	8	16	50	123	296
West Districts North Districts Central Districts East Districts South Districts	561,189 751,668 333,887 638,928 966,132	339 513 189 479 691	284 475 200 431 528	54 99 40 104 140	63 121 41 92 119	7 24 5 22 20	9 29 8 22 15	9 9 1 7 13	3 2 3 1	10 20 7 12 23	4 3 1 3	3 6 3 4 3	1 - 4 3	1 4 1 6 4	7 14 10 12 7	24 44 14 23 18	30 85 89 75 67
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Frompton H - St. Peter Hammersmith - St. Peter Hammersmith H - Fulham WLLLL - Chelsea North-west HWw - Chelsea North-east L - Hanover Square - May Fair W - St. John Westminster HHH St. James's Square Golden Square W - Golden Square W - Golden Square W - Golden Square W - St. Ames Square Golden Square W - St. Ames Square St. Ames Soho HH St. Ames Sho HHH - St. Banca Square W - St. Ames Sho HH St. Ames Sho HH St. Ames Sho HH	#8702 38082 91883 23651 6-62 36030 23378 26419 23278 21349 18700 13020 58043 38440 27640 10453 12835 10279 17,555	30 18 73 19 4 31 19 11 12 13 6 6 33 31 12 4 3 7	26 15 52 13 2 25 14 10 13 10 7 1 16 15 5 8 8	837 - 44 241 2-74 2-11 2-2	7 11 6 6 3 4 2 4 4 - 8 4 1 - 2	1	1 5	1 3 1 4	1	1	1111121111	1 1 1		1	1 32	2 - 2 6 1 - 4 - 1 3 2 - 1 2	3 5 6 1 - 2 3 1 1 5 - 3
NORTH DISTRICTS.  All Souls Marylebone HII - Cavendish Square	26574 16419 24387 24787 21795 38892 38310 38271 88192 29360 20216 88562 18666 68198 97841 115948 9810 6599 28076 50095	20 7 10 18 16 26 14 19 15 18 40 21 50 54 7 3 26 50 54 94	32 1 21 9 15 17 19 15 35 24 13 18 31 67 77 77 5 1	9 - - 364 3 557 223 8 1214 1-359	4 - 13 1 2 6 2 5 7 4 3 5 9 19 22 2 - 8 8 1	9 1 - 2 1 1 - 8 1	2 1 1 1 2 - 2 - 1 13 6 1	1	1	5 - 1 2 1 5 2 2	1	1 1 2 2 2 2	1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 3 3 2 1 - 1 -	2  1 2 4 1 10 1 16 1  2 4 2  10 1	6 -9 2  9 -13 3  9 4 4 8   18 
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH St. Giles North Long Acre Charing Cross. WH St. Mary-le-Strand St. Clement Danes H - St. Andrew East Holborn W Saffron Hill St. James Clerkenwell W Amwell Clerkenwell W Pentonville Coswell-street City-road WHHL Whitecross-street - Finsbury St. Botolph East London HH - Cripplegate St. Sepulchre H St. Bride W Castle Baynard - Christchurch Queenhithe Allhallows Barking Broad Street Calling W Castle Baynard Christchurch Queenhithe Allhallows Barking Broad Street	9831 9376 10711 20521 18528 9051 18912 16878 13293 16:20 12156 18291 13790 10732 14484 13639 7562 11184 4389 4389 4389 4744	8 12 7 5 - 2 3 12 4 4 10 13 6 19 8 8 20 9 3 8 13 4 4 4 3 3 3 3 3 4 4 4 3 3 3 3 4 4 4 3 3 3 3 3 3 3 4 4 3 3 3 3 4 4 3	10 7 6 12 9 3 7 10 19 5 14 5 6 13 5 5 5 4 11 4 13 4 2 2 1 1 3 3 3 3 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 -3 8 6 1 2 1 1 1 5 - 4 4 8 8 1 1 1 1 1 1 2 1 1	34111662312211133-22111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		2	1		111111111111111111111111111111111111111			3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 - 4 4 1 1 13 3 1 2 1 2 1 2

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W—Workhouse;

H—Hospital;

L—Lunaito Asylum;

v—A Workhouse not belonging to the district in which it is situated.

<sup>†</sup> Officials of Public Institutions are not included. \* The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

# ulation, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 409

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLENCE, &c., registered in each Sub-district aturday, 2d December 1871.

aturday, 2d December 1871.				,													1
	Enver	during	during	-	,		The I	DEATE	is regi	stered	in th	e We	ek inc	lude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total BIRTHS du	Total DEATHS du the Week.	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhæa.	Violence.	Inquest Cases.	In Public Insti-
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e following are Outlying Workhouses (indicated in the Tables by w):

Holborn Workhouse is in Hoxton New Town sub-district.

London City , , Mile End Old Town Eastern sub-dist, and
Stepney - , , , Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

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		Robinson's.	Amount of Horizontal	of Air each day.	Miles.	179 230 235 378	94	Sum 1706	94		idered to be 152 feet above the mean considered to be coincident with those considered to be coincident with those readings of the barometer, the dry these times, are converted into mean A by James (Jiaisher, F.R.S., from five	1848. The values of edition.	column 7; and 9h. sers, as de to each.	ermonneth ing 1863, igher," a	e ro be u use of se ship, at	rinission inning of	the 30th 9°98 in.
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ı		nomete	nsquar	Least. 2	lbs. 1	0.00	0.0	:	01		d to l dered observ fings e time	ans., p mean les, Fc	xhibit on; 3l other	from 1 60 yean + is re	ervan ined t n" Po	ship, e.	3h. P.
ı	WIND.	om Anei	Pressure on square foot.	Great-	lbs. 1	7.5.00	0.1	:	123		sidere consi The read t thes	those I Tab	bers e	the a	sal obs tht. seerta co pio	se mst	in. by
I	-	As deduced from Anemonieters.		P.M. G	ENE. &	ë z .	NW. & W. by S.	NE.	50	NOTES.	e barometer is considered to be 139 feet above the mean the barometer are considered to be coincident with those undard barometer. The observations are taken at 91. A.M.; The means of the readings of the barometer, the dry numer, observed at these times, are converted into mean	1.—See Pred from	the numate at 9h. A	oy Mr. Glanwich, in	teorologic to miduip ames 18 a f the "S	The readings of these instruments are registered under the inspector on boart the ship, by permission of LieutCol. ione of Metropolitan Police. — increased from 29.73 ii. at the beginning of the week to	to 29.65
ı		48	General Direction.		(E)			13	-		arome a bard ard ba e mer	aber 3 dedu s Hyg	ir, or read cimuur	ined the Gree	the me night he Tu side o	readin pector of Me	rensed the 2
			Genera	A.M.	NNE.	NE. ENE. NNE. NNE.	NNE. &	NNE.	19		The height of the cistern of the baromofor is considered to be 139 feet above the mean level of the Society's flint glass standard baromotor. The observations are taken at 9th .A.M.; noon; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer; the dry hoom; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer; the dry thermometer, and the wet thermometer; observed at these times are converted into mean thermometer, and the operation of account of the parameter of the pa	and y duties of your application of countries and all of the state of	for mean daily temperature of the air, or the numbers exhibited in column 7, moude the observations of the day thermometer, read at 90, A.M.; moon; 30, P.M.; and 90, P.M.; as well observations of the dyst thermometer, read at 90, A.M.; moon; 30, P.M.; and 40, P.M.; as well as the results deduced from the maximum and minimum thermometers, as determined by as the results deduced from the number of maximum and minimum thermometers, and agreement of the property	temperature of the air is that determined by M. Glashor from the themometrical observa- tions taken at the Royal (Uservatory, Greenwich, in the 50 years ending 1863, December 31, *In reading the 17th column it will be borne in mind that is read "higher," and "hoper,"	than the average. The results of all the meteorological observations are to be understood as applying to the civil day, or from midnight to midwight. The temperature of the water of the Thannes is ascertained by the use of self-registering "the temperature of the water of the "Soo pion" Police Ship, at the depth of the mannerers, suspended from the side of the "Soo pion".	about 2 feet below the surface. The reachings of these instruments are registered under the subout 2 feet below the surface. The resident inspector on boart fire ship, by permission of LieutCol. Herderson, R.B., C.B., Commissioner of Metropolitan Police.  The accordance of the harometer increased from 22.78 in, at the beginning of the week to	10f - Fem. by 91. A. A. to the 27th; decreased to 29.65 in. by 3h. P. X. on the 30th of November; 20.786 in. by 91. A.M. on the 2d of December; and was 29.98 in. at the end of the week.
	Degree	midity, complete Satura-	tion being repre-		92	88 87 91 90	84	68	18		cistern he reading s flint g nd 9h. F	appinear inding 18 ie of hun ters by	perature dry ther ced from	hir is the Royal Ob the colum	The result day, or of the wended f	the surfa the rev B. Coun	on the in. by 9h
		Between mean tem- perature of	the day and mean tem-	the same day on an average of 50 years.*	1.9	3.6 6.5 6.5	9.6	5.5	17		The height of the cistern of the level of the sea. The readings of the Royal Society's fint glass so noon; Sh. P.M.; and 9h. P.M.; hermometer, and the wor then	rvations eand degre	daily tenns of the	respering respective of the In at the I7 ing the I7	verage, o the civi	about 2 feet below the surface. superintendence of the resider Henderson, R.E., C.B., Commiss The socialing of the baronnelt	y 9h. A.M. to 30'16
ı	DIFFERENCE			Least.	000	1.8	0.5	1.5	16		of the Roy Sh.	s' obse point	nean rvation	seli-reg seratu s takel n read	ying to	at 2 ferrinter	29.86 in. b increased the week.
l	DIFFE	ween Dew Portente Remperature	Air Temperature	Great.	64	1.0044	6.50	5.3	15		The level of the noon there	year dew wet	for a obse	tions tions *I	than appl	abou Supe	
١		Between Dew Point Temperature and	Air Ten	daily G	8.3	88399	3.0	3.0	14		in fell	during	d then	le rain	l mid-	he day.	. Fog.
1	1				0.98	36.3 36.8 36.8	36.4	36.5	13		misty re	sionally	t of clou	. A litt ernoon.	about 99	nes in the	at times
		In the Water the Thames	Greenwich, by self-registering Thermometers.	lighest, Lowest.	39.68	89.68 89.68 89.89 89.88	39.0	33.4 8	12	HERE.	A little thin misty rain	and ocea	he amoun night.	Slight fog. A little in the afternoon.	r minutes 7 from 3h	and at the	Thin clouds present at times.
l	SRS.	-	a self- s		34.8	30.0 29.0 21.8 30.3	32.0	28.4	=	AND ATMOSPHERE		morning, hroughou	rnoon; t	at night.	for a few ntinuously by snow.	morning, f cloud ve	n clouds l'night.
۱	READINGS OF THERMOMETERS.	Highest in I the sun, as shown by G		blackened M bulb in vacuo, T placed on the T Grass.	49.8	53.0 57.9 44.9	58.5	53.8	10		nerally overcast throughout.	ill thinly in the early movning, and occasionally during Cloudy and very dull throughout.	Generally overcast till the afternoon; the amount of cloud then varied slightly from time to time. A fine night.	Overcast till noon, and again fell between noon and Ih. P.M.	Generally overcast. Snow fell for a few minutes about 9h, at thin rain fell almost continuously from 3h. P.M. till ight, occasionally accompanied by snow.	A little rain fell in the early moreing, and at times in the A very fine day. The amount of cloud very variable.	Hoar frost in morning. Thin clour varying in density, prevalent till night.
١	OF TH	Dew th	Mean	daily but	36.7	34.3 33.2 33.1	34·1 29·6	33.4	6	SKY	vercast	inly in	ereast ti	noon, a	rereast.	fell in	in mor
۱	ADINGS	22		daily d	39.0	37.5 36.6 35.1	38.4 8	36.4	1 00		erally or		ally ove slightly	cast till ween n	thin re	tle rain	frost g in der
١	RE		Range M	in day.	6.7 3	6.7 5.5 10.0 4.3	8 9 0	7.2	1		Gene about 1	Rain f	Gener	Over fell bet	General a night,	A lit	Hoar
۱		Dry.	-	Low-	36.2	35.0 34.3 30.0 33.9	33.7	33.1	9					nt of			
۱			1-	High- I	6.24	1.8008	2.5.9	40.3	20	ITY.				ratus o			
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		1871	Cours and Day		NOVEMBER.	TONDAY UESDAY VEDNESDAY	DECEMBER RIDAY	MEANS	No. of Columns.	DATE	November undar .	IONDAY	TUESDAY	VEDNESDAT	[HURSDAY	DECEMBER 'RIDAY .	SATURDAY

#### WEEKLY RETURN

#### BIRTHS DEATHS AND IN NINETEEN OTHER LARGE TOWNS OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.

No. 49. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, DECEMBER 9. [Price 1d.

General Register Office, Somerset House, 11th December 1871.

During the week ending Saturday the 9th instant, 4833 births and 4271 deaths were registered in London and Nineteen other large Cities and Towns of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 31 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality last week in the Seventeen English Cities and Towns were as follow:—London 30 per 1000; Portsmouth 24, Norwich 36, Bristol 30, Wolverhampton 56, Birmingham 25, Leicester 34, Nottingham 33, Liverpool 31, Manchester 38, Salford 39, Bradford 28, Leeds 25, Sheffield 34, Hull 26, Sunderland 36, and Newcastle-upon-Tyne 33. The fatal cases of smallpox in these seventeen towns, which in the four previous weeks had been 153, 197, 209, and 237, further rose to 255; of these, 104 occurred in London, 29 in Wolverhampton, 23 in Sheffield, 21 in Norwich, 19 in Salford, 18 in Newcastleupon-Tyne, 15 in Sunderland, 6 each in Birmingham and Bristol, 3 each in Portsmouth, Nottingham, Manchester, and Leeds, and 2 in Hull. These numbers showed an increase in London, Wolverhampton, Salford, Newcastle, and Sunderland, while they had considerably declined in Sheffield and Nottingham. The annual death-rate from this disease was equal to 22 per 1000 persons living in Wolverhampton, 14 in Norwich, 8 in Salford and Sunderland, 7 in Newcastle, 5 in Sheffield, and 2 each in Nottingham and London.

In Edinburgh the annual rate of mortality from all causes last week was 32 per

1000 persons living, in Glasgow 35 per 1000, and in Dublin 31.

In Paris 832 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 24 per 1000 of the estimated population. In Brussels 101 deaths occurred in the week ending the 2d, and the annual deathrate was 28 per 1000. In Berlin during the week ending the 7th, 601 deaths were recorded, including no less than 166 from small-pox, and showing an annual rate of 35 per 1000. In Vienna the 366 deaths in the week ending the 2d gave an annual rate of 31 per 1000. In Rome 174 deaths were registered in the week ending the 26th ultimo, and the annual death-rate was 40 per 1000.

In London 2126 BIRTHS and 1856 DEATHS were registered last week. After making due allowance for increase of population, the births were 40 below, while the deaths exceeded by 158, the average numbers in the corresponding week of the last ten years. The annual death-rate in London, which in the two previous weeks had been 30 and 31, was 30 again last week; the rate was 28 in the West, 33 in the North and Central, 29 in the East, and 28 in the South Districts of London.

The 1856 deaths in London last week included 104 from small-pox, 81 from measles, 34 from scarlet fever, 10 from diphtheria, 85 from whooping-cough, 51 from different forms of fever (of which 6 were certified as typhus, 35 as enteric or typhoid, and 10 as simple continued fever), and 14 from diarrhea; thus to the seven principal diseases of the zymotic class 379 deaths were referred last week, against 241, 263, 280, and 337, in the four preceding weeks. The fatal cases of small-pox, whooping-cough, and enteric fever showed an increase upon those in recent weeks. The fatality from measles was greatest in Islington, Paneras, Kensington, Westminster, Bow, Bermondsey, and Wandsworth; from scarlet fever in Kensington, Islington, and Brixton; and from whooping-cough in Chelsea, Marylebone, Islington, and Lambeth.

The deaths from small-pox in London showed a decided further increase upon the numbers in recent weeks, rising from 67 and 78 to 104, a higher number than has occurred in any week since the end of July last, and exceeding by 83 the corrected

average weekly number in the ten years 1861-70. In the four small-pox hospitals at Hampstead, Islington, Homerton, and Stockwell, 36 deaths were returned, against 26 and 20 in the two preceding weeks. Ten fatal cases were recorded in Kentish Town, 5 in Limehouse, and 3 each in Christchurch (Marylebone), and Mile End Old Town Eastern sub-districts.

The 51 deaths from different forms of fever in London showed a slight increase upon those in recent weeks, but were 15 below the corrected average number in the corresponding week of the last ten years. The 35 deaths referred to enteric or typhoid fever showed an increase of 16 upon the previous week, but were one below the number in the first week of November; 11 where infantile cases, 10 of children and young persons between 5 and 20 years, 13 of adults aged from 20 to

60, and one was of a person aged upwards of 80 years.

The mean night temperatures were 7° below the freezing point; and early on Friday morning the depression reached 14° at Greenwich, and 23° at Norwich on the East Coast. This partly accounts for the increase in the deaths by enteric fever, small-pox, measles, and whooping-cough: for though extreme cold does not produce these diseases, it renders their latter stages dangerous or fatal by inducing pulmonary complications. The following are instances in the present return:—the son of a marble polisher, aged 8 months, died from "enteric fever, 10 days, pneumonia, 2 days;" the son of a bricklayer, aged 8 years, from "enteric fever, 2 weeks, pneumonia;" the resident assistant physician to the Middlesex Hospital, aged 23 years, from "enteric fever, congestion of the lungs;" a housekeeper, aged 39 years, from "enteric fever, congestion of the lungs;" the daughter of a plasterer, aged 14 years, from "enteric fever, bronchitis;" the daughter of a carpenter, aged 18 years, from "enteric fever, 24 days, pneumonia, 3 days;" and the son of a grainer, aged 15 years, from "enteric fever, pneumonia."

The 357 deaths referred to bronchitis showed a decline of 100 upon those returned in the previous week, but exceeded by 115 the corrected average weekly number. The mean temperature of the four weeks ending last Saturday showed an average deficiency of 8°0, and the mean of last week was only 29°8, that is

12°1 below the average.

To different forms of violence 36 deaths were referred; of these, 31 were the result of accident or negligence, including 14 from fractures and contusions, 3 from burns and scalds, one from poison, and 12 from suffocation, all of which were of infants under one year of age. No death was returned as caused by horses or vehicles in the streets. Four cases of suicide, and one of infanticide, were registered during the week.

At the Royal Observatory, Greenwich, the mean reading of the barometer last week was 30.05 in.; the highest reading was 30.33 in. on Friday at noon, and the lowest 29.87 in. on Sunday morning. The mean temperature of the air was 29°.8, or 12°.1 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was considerably below the average on each day of the week, and ranged from 34°.2 on Wednesday, when the deficiency was 7°.9, to 22°.4 on Friday, which was no less than 19°.3 below the average. The highest day temperature in the shade was 39°.7 on Wednesday; the lowest night temperature 18°.6 on Friday; the entire range of temperature in the week was, therefore, 21°.1. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 56°.6 on Monday. The difference between the mean dew-point temperature and air temperature averaged 4°.9. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 36°.0 last week. The mean degree of humidity of the air was 81, complete saturation being represented by 100. The general direction of the wind was Northerly, and the horizontal movement of the air in the week averaged 8 miles per hour. Rain or melted snow to the amount of .04 of an inch was measured.

The mean temperature of the week in the other large English towns furnishing returns ranged from 27°·7 in Manchester, to 34°·4 in Leeds; the lowest recorded night temperature was 9°·0 in Norwich, and the highest day temperature in the shade 42°·5 in Bradford. More than an inch of rain or melted snow was measured in Newcastle-upon-Tyne, and a quarter of an inch in Norwich; the

quantity was very small in the other towns.

In Centigrade degrees the mean temperature of the air last week at Greenwich was  $-1^{\circ}\cdot 2$ , or  $6^{\circ}\cdot 7$  below the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was  $4^{\circ}\cdot 3$ , the lowest night temperature showed  $7^{\circ}\cdot 4$  of frost, and the highest temperature in the sun was  $13^{\circ}\cdot 7$ . The wind blew at the rate of 13 kilometres an hour, and the rain-fall or melted snow measured  $\cdot 10$  of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 197,387 cubic metres, and at Barking 255,384 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FORTY-NINTH Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1871
Total Births Males	1656 837	1829 914	1795 941	1961 1020	2162	1970 983	1959 1008	2171	2267 1136	1922 975	1969·2 1002·4	2126 1093
Females .	1300	915	1376	941	1088	1584	951	1035	1759	1586	1543.9	1033
Males Females .	666 634	802 817	724 652	760 762	700 733	795 789	786 802	826 846	954 805	755 831	776·8 767·1	1856 927 929

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON.—COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WREKS.

	Sept.	Sept. 23.	Sept. 30.	Oct.	Oct. 14.	Oct. 21.	Oct. 28.	Nov.	Nov. 11.	Nov. 18.	Nov. 25.	Dec.	Dec.
TOTAL Deaths	1422	1411	1390	1283	1275	1291	1364	1400	1365	1626	1863	1918	1856
Deaths under 5 years of age - Deaths 5-20	717	686 97	590 107	539 121	497 103	492 100	527 115	552 129	571 106	688 119	742 118	813 121	809 126
Deaths 20—40 Deaths 40—60	178 223 157	201 203 181	206 245 202	178 212 183	202 203 221	197 206 238	213 230 236	201 224 230	206 209 221	222 239 296	250 342 338	233 315 359	247 284 322
Deaths at 80 years & upwards	35	43	40	48	49	58	43	64	52	62	73	77	68
Deaths from Smallpox - ,, ,, Measles - ,, ,, Scarlet Fever -	57 16 32	89 23 27	51 18 36	72 25 38	61 34 29	53 34 40	61 36 31	61 45 38	54 42 32	76 49 40	67 60 34	78 83 39	104 81 34
", Diphtheria - ", Whooping-cough ", Typhus fever -	8 32 11	7 24 3	6 30 8	5 36 4	9 27 6	6 23 11	6 40 4	51 4	5 42 6	6 36 5	64 4	10 - 72 12	10 85 6
", Enteric (or Ty-) phoid) fever -  ", Simple Contd fever	25 11	12	23	21	12	15 9	23 10	36 7	32	27	27 13	19	35 10
" Diarrhœa Simple Cholera -	268 15	205	153 7	80	69	46	32	19	21	17	-7	16	14
", Phthisis Bronchitis Pneumonia - Heart Disease -	146 58 39 62	139 62 37 54	166 83 39 71	143 84 56 60	140 113 62 73	147 120 80 58	157 179 84 74	166 190 81 71	162 180 105 61	160 287 115 85	219 380 162 88	168 457 132 103	179 357 155 77
Mean Temperature of the Air	62.6	53.6	50°·2	51.9	45.5	53.5	46.9	47.3	39.2	35.3	34.3	36.4	29.8
Mean Temperature of the Water of the Thames -	63:4	60.1	56.2	53.7	52.7	51.5	51.6	49.8	46.6	42.1	38.2	38.0	36.0
Humidity of the Air	71	70	88	80	80	91	90	81	84	84	86 0·10	89	81
Rain-fall in inches	0.00	0.10	3.34	0.77	0.00	0.55	0.01	0.04	0.03	0.29	0.10	0.12	0.04

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 9th day of December 1871, in the following large Towns.

CITIES	Area	Population	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE		THE AIR.	RAIN	FALL
AND	in	estimated to the	to an	during the	during the			Weekly	GRADE.)		
BOROUGHS.		middle of the Year	Acre.	Week ending	-		Lowest	Mean of the	Weekly Mean of	In	In
	Acres.	1871.*	(1871.)	9th Dec.	9th Dec.	during the	the	Daily	the Daily	Inches.	Cen
(Municipal Boundaries for all except LONDON.)				1871.	1871.	Week.	Week.	Mean Values.	Mean Values.		
Total of 20 Towns)				1							1
in the United Kingdom	213,281	7,204,001	33.8	4833	4271	42.5	9.0	31.3	-0.39	0.11	0.5
LONDON	77,997	3,263,872	41.8	2126	1856	39.7	18.6	29.8	-1.22	0.04	0:1
PORTSMOUTH	9,513	113,450	11.9	70	53	40.8	21.2	30.7	-0.72	1 0.00	0.0
NORWICH	7,472	80,533	10.8	47	56	40*0	9.0	27 9	-2.28	0.52	0.6
BRISTOL	4,688	183,298	39.1	112	104	-	_		-		
WOLVERHAMPTON -	3,387	68,476	20.2	51	73	38.6	17.5	29.6	-1.33	0.09	0.5
BIRMINGHAM	7,831	344,980	44.1	253	166	40.2	21.8	31.8	-0.11	0.04	0.1
LEICESTER	3.200	95,882	30.0	62	62	37.5	17.7	29.7	-1.28	0.05	0.0
NOTTINGHAM	1.996	86,929	43.6	48	55	39.4	16.6	30.5	-1.00	0.04	0.1
LIVERPOOL	5,108	494,649	96*8	328	291	40.0	22.9	33.9	+1.06	0.08	0.5
MANCHESTER -	4,486	356,099	79.4	234	259	38.0	17.0	27.7	-2.39	0.05	0.0
SALFORD	5,172	125,422	24.3	74	93	41.7	17.4	29.6	-1.33	0.00	0.6
BRADFORD -	6,590	146,987	22.3	102	80	42.5	23.7	33.7	+0.92	0.04	0.1
LEEDS	21,572	260,657	12.1	222	127	40.0	23.0	34.4	+1.33	0.09	0.5
SHEFFIELD	22,830	241,507	10.6	200	158	40.0	17.0	33.0	+0.72	0.01	.0.6
HULL 7	3,562	122,266	34.3	92	60				_	-	-
SUNDERLAND	3,306	98,797	29.9	104	68			Onesia .		-	-
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	86	82	39.0	26.0	33*2	+0.67	1.05	2.6
EDINBURGH	4,427	201,728	45.6	121	125	40.0	24.0	32.3	+0.17	0.00	0.0
GLASGOW -	5,063	479,227	94.7	344	319	_	-			I - ,	-
DUBLIN	9,745	310,565	31.9	157	184	41.5	23.2	33.2	+0.84	0.00	0.0
	0,, 10	1			1	1	1	1	1		

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by addi 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs show a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, t population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the We ending Saturday the 9th day of December 1871.

	ANNUAL				The	e DEAT	us regi	stered i	in the V	Week in	elude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of Mor- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public
Total of 17 Towns -	31	3643	875	740	255	111	92	16	145	114	44	105	199	4
LONDON	30	1856	434	390	104	81	34	10	85	51	14	86	89 -	28
PORTSMOUTH	24	53	16	13	3	3	_	_	-	2	3	-	- 2	
Norwich	36	56	15	12	21	-	1	_	-	2	-	-	2	
BRISTOL	. 30	. 104	22	32	6	4	3	-	5	1	-	-		
WOLVERHAMPTON -	56	73	12	9	29	1	2	_	3	1	_		1	
BIRMINGHAM -	- 25	166	37	39	6	2	. 3	_	1	5	6	15	21	9
LEICESTER -	84	62	25	14	_	2	_	1	_	2	2	1	4	
NOTTINGHAM -	S3	55	12	15	3.	-		1	_	5	1	3	6	
		201	00				13	3	11	15	5	29	29	1
LIVERPOOL	31	291	80	58	3	3	10	0	15	13	3	4	17	1
MANCHESTER SALFORD	38	259 93	59 20	52	19	_	2	1	6	3	2	4	. 8	
BRADFORD -	39 28	80	20	19	19	1	2	1 -	3	1	ī		-	
DEADTORD 4	40						_						1 .	١.
LEEDS	25	127	27	22	3	2	1	1	9	3	3	3	4 5	1
SHEFFIELD	34	158	41	24	23	6	10	-	4	5	1	3		
HULL	26	60	12	13	2	-	_	-	1	1	1	1	2	
SUNDERLAND	36	68	20	10	15	5	8	-	- 1	4	1		47	
NEWCASTLE-ON-TYNE -	. 33 .	. 82 .	21	10	18	2	3	-	1	-	1	5	1 7	
DUBLIN	31	184	25	61	12	-	5	1	-	7	6	5	7	1

TABLE 5.—DEATHS in LONDON Registered in the FORTY-NINTH Week of the Year 1871.

	-70.	Sof	In t		Veek			71		-70.	Sati	In thurday	e W	eek	endi	ng	
	s of the h Week rs 1861-70.		Deat	hs of		sons	_			s of the th Week rs 1861-70.	_	Deat	hs of		sons	_	
CAUSES OF DEATH.	Averages of Forty-ninth in the 10 years	ALL AGES.	Un	der	9	30.	r 80.	вич	CAUSES OF DEATH.	Averages of t Forty-ninth W	ALL	Une	ler	40.	60.	.80	and
	Fort in the	Mean			1 under	l under	l under	y Years a		For in the	Mean	20		under	40 and under	and under 80.	0 Years a upwards.
Mean Temperature -	41.9	Tem. 29.8	0-6.	5-20,	20 and	40 and	60 and	ndn nbw	Mean Temperature -	41.9	Tem. 29.8	0-5.	5-20.	20 and	40 and	60 and	80 Yeu
ALL CAUSES	1543.9	1856	809	126	247	284	322	68	9. Stricture of Intestines -	1.5	-	-	-	-	-	-	-
SPECIFIED CAUSES	1531.8	1855	808	126	247	284	322	68 —	11. Stomach Disease, &c 12. Pancreas Disease, &c 13. Hepatitis -	5.4	4 - 3	-	-	-	3 - 2	1	- 1
ORDER 1. 1. Small-pox	19.2	104	36	23	31	14		_	14. Jaundice	8°9 17°3 °6	3 3 15	1 -	-	3	7	5	1
2. Measles - 3. Searlet Fever (Scarlatina) 4. Diphtheria - 5. Quinsy -	89.6 10.4	31 34 10	71 22 7	9 11 2	-	1 -	1	-	ORDER 5.	1.5	8	-	2	-	1	_	-
6. Croup 7. Whooping-cough 8. Typhus )	1.5 16.3 46.7	12 85 6	11 81 1	1 4	-	3	-	-	2. Ischuria	9.2	8 2	)	1	1	1	2 - 1	=
- Entericor Typhoid Fever Simple continued Fever 9. Erysipelas	59.9	35 10 15	11 2 7	10 2	1 9 2 2 3	1 1	3 4	1	5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	1:1 1:6 7:0	3 6	1	-	1 3	1	1	1
10. Puerperal Fever (Metria) 11. Carbuncle 12. Influenza	3.6 1.4 .9	S 1 1	Ħ	1 1 -	- 1	1		-	ORDER 6. 1. Ovarian Dropsy 2. Uterus Disease, &c	1.8	2 8	-	-	- 6	1	1	
13. Dysentery 14. Diarrhea 15. Simple Cholera 16. Ague	2°1 14°7 °4 °8	14	8		1 1 1 1	1	4	1	ORDER 7.  1. Synovitis (Arthritis) - 2. Joint Disease, &c	*3 5*2	3 8	1	- 4	1 4	-	1	-
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	1.2 9.8	9		2	3	3	1	-	ORDER 8.  1. Phlegmon	1.2		1	_	_	_	2.	-
ORDER 2. 1. Syphilis	5.4	5	5	-	-	-	- 1	-	2. Ulcer 3. Skin Disease, &c	1.0	1 1	1	-	-	1 -	-	-
3 Hydrophobia	·ĭ -	-	=	-	~	-	-	-	IV. DEVELOPMENTAL DISEASES. ORDER 1.						7		H
1. Privation 2. Want of Breast milk - 3. Purpura and Scurvy -	7.0 1.4	15 3	15	1 1 3	1-	111	1	-	1. Premature Birth 2. Cyanosis 3. Spina Bifida	19:4 2:2 1:1	29	29	-	-	1.1.1	1 1 1	=
4. Alco- a Del. Tremens - holism b Intemperance - OBDER 4.	1:3	3		-	2	ī	-	-	4. Other Malformations - 5. Teething	1:8	11	11		-	-	-	
1. Thrush	2:7	2 -	1	-		-	-	-	ORDER 2.  1. Paramenia 2. Childbirth (see Puer-)	6.0	1 7	-	-	7	1	-	i
II. CONSTITUTIONAL DIS.  ORDER 1.  1. Gout	1.3	7		-		1	5		peral Fever) 5 ORDER 3.	60-5	57 1	_			_	28	29
2. Dropsy 3. Cancer 4. Cancrum Oris (Noma) -	14·1 27·7 ·7	9 29	2	1	1 2 -	14	5 10 -	1 1 1 -	ORDER 4.  1. Atrophy and Debility -	59.3	53	46	-	_	8	4	-
5. Mortification ORDER 2. 1. Scrofula	9.1	9	- 5	- 8	1		2	-	V. VIOLENT DEATHS, &c.						I		
2. Tabes Mesenterica 3. Phthisis 4. Hydrocephalus	16.5 164.5 25.5	17 179 22	17 7 19	15	89	56	12	-	(Accident or Negligence.) 1. Fractures and Contusions	16.3	14	_	-	7	3	3	1
III. LOCAL DISEASES.	-			-	1				2. Wounds 3. Burns and Scalds 4. Poison	9.3	3 1	3 -	-	1	-	-	-
1. Cephalitis 2. Apoplexy 3. Paralysis	13°1 39°7 30°6	18 39 23	10 6 -	4	2 2 2	13 5	1 12 11	-2 5	5. Drowning	9:9 2:3	12	12	-	1.1.1	111	-	
4. Insanity	2·9 •3 7·3	3 1 5	- 2	ī	- 2	-	3	- - 1	ORDER 3. (Homicide.)								
7. Convulsions 8. Brain Disease, &c ORDER 2.	53°5 18°4	66	64	3	3	2	8	ī	1. Murder and Manslaughter ORDER 4.	2.7	1	1			-	_	-
1. Pericarditis 2. Aneurism 3. Heart Disease, &c	2'9 2'1 71'1	2 4 77		1 - 6	1 2 7	26	36	- 2	(SUICIDE.)  1. Wounds { Gunshot - Cut, Stab -	1.5	1 1	Ŀ	-	1	-	_	-
ORDER 8. 1. Laryngitis 2 Bronchitis	7.0	5 357	3 149	-4	1	1 64	112	17	3 Drowning	1.5	1	1 11	-	-	1	-	
3. Pleurisy	4.8 102.5 15.6	155 21	112	4	11 - 7	3 16 8 3	12 13		5. Otherwise ORDER 5.	-1	-		-	-	-	-	-
6. Lung Disease, &c ORDER 4. 1. Gastritis	1.9	29	16	1	-	1	8	-	(EXECUTION.)  1. Hanging			-	÷	-	-	-	-
2. Enteritis	4·9 4·7 2·8	8 -	1	11.1	1 4 - 2	2 2 -	3	1 -	Violent Deaths (not classed)	:1		-	-	-	-		-
5. Ulceration of Intestines - 6. Hernia 7. Ileus	3.8 3.0 3.0	4 5 2 2	2 - 1	1 1 1	2 -	1	2 2 2	-	Sudden Deaths (Cause un-) ascertained)	3.3	1	1	-	-	-		-
8. Intussusception	1.4			-	-	1	-		defined				41	4h e	00.00	:	

## Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

TABLE 6. LONDON.—POPULATION, BIRTHS, DEATHS from ALL CAUSES, and from SMALL-POX, MEASLES, SCARLET

												duı	ring	the	Weel	k en	ding
		during	during				The	DEAT	Hs re	gistere	d in			nelude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions, t
LONDON -	 3,251,804	2126	1856	434	390	104	81	34	10	85	6	35	10	14	36	89	283
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	561,189 751,668 333,887 638,928 966,132	298 518 209 461 640	303 473 208 355 517	66 112 54 93 109	69 90 45 81 105	6 50 4 23 21	7 31 3 16 24	8 4 4 13	2 2 6	15 22 9 11 28	3 1 - 1 1	7 11 2 8 7	5 1 1 1 2	2 2 3 6 1	4 9 8 4 11	10 21 22 19 17	58 86 82 47 60
WEST DISTRICTS.  St. Mary Paddinston WH - St. John Paddinston H - Kensington Town WL - Brompton H - St. Peter Hammersmith - St. Peter Hammersmith H - Fulham WLLLL - Chelsea North-west HWw - Chelsea North-west HWw - Chelsea North-west HWw - St. John Westminster HHH St. Margaret Westminster WW St. James's Square - Golden Square W - Berwick-street W	58702 88082 91583 28661 6662 26030 23378 24419 23278 21389 18700 18100 58043 38470 27640 10453 12855 10279	42 16 46 13 5 21 14 15 13 9 12 3 28 17 14 3 9	29 13 42 12 1 23 10 13 14 8 5 4 30 29 29 29 18 7 14	3 1 10 4 9 5 4 4 1 1 1 5 7 4 -3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	5 2 5 3 1 2 3 3 1 1 9 5 8 1 8 3 3	1 - 1	3	3		3	1	1 31	2 1 - 1 1	11111111111111111	1	1 2 - 2 - 1 1 1 1 1	44 32 8 2 16 - 11 - 3
St. Anne Soho HH -  NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square - Rectory Marylebone WH - St. Mary Marylebone H - Christehurch Marylebone - St. John Marylebone - Hampstead WHH - Regent's Park Paneras - Tottenham-court wH - Gray's Inn Lane H - Some's Town W - Camden Town W - Hentish Town W - Islington West WHHH - Islington East Www - Stoke Newington L - Stamford Hill - West Hackney - Hackney Wehl L - South Hackney L -	17555  28574 16419 26387 21795 38392 23110 32271 38192 29360 29216 88562 89562 18063 68198 9810 115948 9810 68599 28076 50087 30305	18 2 14 23 28 16 10 22 16 19 29 15 41 88 88 7 88 23 30 21	21 5 31 6 10 14 18 21 35 19 20 18 37 74 67 3 4 15 36 19	7 8 3 1 4 2 2 3 6 9 4 4 6 4 7 17 19 3 1 2 5 6	1	- 1 3 - 9 1 1 1 - 1 10 9 1 1 - 1 10 3	1 1 3 2 2 8 - 9 8 - 1	1 - 5 2	1	1 1 3 6 - 1 - 3 6 - 1		1 1 2 1 2 - 3 -	1	111111111111111111111111111111111111111	1 1 2 1 1 2 2 1	3213131	5 10 
CENTRAL DISTRICTS.  St. George Bloomsbury— St. Giles South WH—  Giles North ————————————————————————————————————	17843 19089 16497 11326 9881 9376 10711 26521 18528 9051 16878 16878 16820 12156 18912 1484 13839 1484 13839 1484 1484 4384 4384 4584 4584 4584 4584 4584 4	15 9 5 3 10 8 6 4 13 11 11 11 11 8 32 14 4 5 7 5 4 3 3 1 5	10 18 11 6 6 4 6 7 17 3 8 15 6 5 15 6 6 5 25 6 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	82 23 3 3 3 - 6 - 1 4 4 3 - 2 6 3 1 - 3 3 3 - 2 2 - 2	18 - 21112 2 2 2 1 2 1 4 2 1 1 2 2 3 1 1 1 - 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					111111111111111111111111111111111111111	1222	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H-Hospital;

L-Lundic Asylum;

w-A Workhouse not belonging to the district in which it is situated.

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRIGEA, VIOLENCE, &c., registered in each Sub-district Saturday, 9th December 1871.

Saturday, 9th December 1871.						_											
		during	during				The I	DEATH	is reg	istere	d in	the W	eek ir	ıclude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation. 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence	Inquest Cases.	In Public Insti- tutions.
FAST DISTRICTS.	12429 16545 27832 26944 24153 19257	5 10 19 19 18 15	6 7 19 14 19 12	1 4 6 2 4	- 3 4 11 1	- - 1 1	1 3 1	- 1 1	111111	11111	111111	1 1	111111		11111	1	1 8 -
Hackney-road Green, Bethnal Green WHL† - Church, Bethnal Green - Town, Bethnal Green -	29808 42443 26574 21375	20 27 20 9	17 23 12 5	7 5 2 8	2 6 3 1	1 2	-	ī -	11711	1 -		1 -		1	1111	-	9 -
Artillery Whitechapel	6651 15844 15550 11434 7323 10381 9149	5 8 10 12 10 10 4	3 9 6 7 16 9 4	5 2 2 3 2 3	2 1 2 1 2 2 -	- - 1 - 1	1	111111	1111111	2 - 1 -	1111111	111111	1171111	1111111	1 - 2	3 1 2 2 1 1	ī 11 11
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Shadwell W	11623 15930 30025	8 8 23	4 7 15	- 2 8	1 4	1 5	-	1 -	-	1 -	-	111	-		1.1.1	1 3	-
Mile End Old Town West Mile End Old Town East WwH	38126 55020	23 41	22 26	8 7	5 7	3	-	-	2	1 3	-	=	-		1 -	3 -	3
Bow WwHL†	67777 48500	70 28	45 24	13 4	9	2 1	7	-	-	-	1	1	ī	2	-	-	81
SOUTH DISTRICTS.   Christehurch Southwark W	14547 15667 20430 16694 18959 28673 4×232 16786	7 11 17 12 14 10 52 12	9 8 10 9 7 8 25 18	1 3 2 3 1 4 2	2 2 1 3 1 - 9 2	- 1 - 2 1 -	- - 1 - 1	- - - - 1	11111111	1 1 - 3 -		111111	1111111	11111111	1111111	1	1
St. Olave Southwark H St. John Horsleydown W	4157 10595 16785 15707 47921 25873	2 2 9 7 35 18	17 7 5 4 37 14	1 1 1 14 14	2 1 2 1 4 6	111111	- - 9 1	11111	- - - 1	1 1 2	111111	1	111111	111111	11110	5 - - 1	16 3 - 1 - 4
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W Kennington 1st W Kennington 2nd	14086 18453 19470 85831 41284 81213 85481 12534	10 22 20 27 24 20 15 9	9 18 13 23 21 9 27 1	6 3 6 6 1 2 1	1 1 6 1 2 9 -	2 10	1 - 2	1 3 -	1	1 3 4 2 2	11111111	1	1111111	1111111	1 1 1 1 1 1 1	1	2 4 5 - 10 -
Clapham HL	27348 53988 .19797 9438 14479	14 57 9 6 5	11 28 12 8	3 7 8 1 1	2 4 1 3 -		1 6 -	1 1 1 -	- - 1	2	ī -	- - -	1111	1111	1	- 1	2
Dulwich Camberwell WL†L† Peckham W - St. George Camberwell	4041 31251 42159 33851	1 20 28 19	11 81 18	- 2 7 6	3 8 1	1111	- - 1	2		1	1111	2 -	1111	1111	1	1 1 1	-
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	42 2 8 13	27 1 10 17	4 - 2 5	6 2 4	1 -	-	-	3 -	1 -		1 -	1111	-	1111	1	ī n
Eltham	4528 16430 11508 19016	- 4 5 11	1 7 2 9	1 1 3	- 3 1 4	1	-	.1		-	1111	-	1111	1111	- - 1	- 2	- 1 - 1
Charlton H Woolwich Dockyard Woolwich Arsenal H Plumstead, West	9503 17229 18319 13028 15290	3 5 11 8 14	6 5 9 5 9	- 1 2 - 1	1 3 2	- 1 2 -	71	ī - -	11111	11111	11111	ī	1	(1111)	11111	- - - - 1	

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand - " Tottenham-court sub-district.

London City - " " Islington East.

London City - " " Bow sub-district.

London City " Bow sub-district.

Stepney - " " Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 9th December, 1871. [Under the Superintendence of the Astronomer Royal.]

			•6	ouozo		: :	::	:	:	:		26		tean day day day day day day day day day day
RAIN.	Collected	Gauge	receiving	above the ground.	Inches	00.0	0.00	00.0	00.00	00.00	Sum 0.04	95		and the mean and a sare taken at a sare taken
		Robinson's.		Movement of Air each day.		252	193	300	98	160	Sum 1370	24		dered to be coincident with those dered to be coincident with those when be coincident with those and addings of the baronnele, the dry and assess Glaisher, F.R.E., from from an annual state of the second of the
	ters.	R		Mean of 24 Obs.	lbs.	0.0	0.1	6.0	0.0	0.0	:	23		to be conserved by the beautiful of the
	ешоше		n squar	Least. 24			0.0	0.0	0.0	0.0	:	22		idered from the control of the carding see time. Jame was, pour see the control of the carding applicable of the carding applicable of the carding applicable of the carding applicable of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the carding of the cardinal c
WIND.	from Ar		Pressure on square foot	Great-			3.5	9.4	1.1	0.1	:	21		nsidere to considere to constant these of the constant these of the constant the co
	As deduced from Anemometers	Osler's.		P.M.		N. by E.	N. by E.			W. by S.		50	NOTES.	teter is concurred and a series of the serie
			General Direction.	А.М.	***************************************	ż		N. & W.	ENE.			19		so the oistern of the barometer is considered to be 159 feet above the mean sea. The readings of the barometer are considered to be coincident with those all Society's flint glass standard barometer. The observations are taken at all Society's flint glass standard barometer. The observations are taken at all Society's flint glass standard barometer. These three states converted into mean by the application of corrections deduced by James Glaisher, F.R.S., from from attors cuting 1345, December 31. See Phil. Travas, part. I. 1885. The mean daily degree of hundity are deduced from those mean daily values of the dry and degree of hundity are deduced from those mean daily values of the first an expensive the state of the six, or the numbers balls, fourth edition. The results dily temperature of the six, or the numbers balls, fourth edition. The results of the dark and minimum thermometers, as determined by sterning thermometers, the proper corrections being applied to each. The average of the six is that determined by Mr. Claisher from the thermometeries dosserva, at the Royal Observatory, Greenwich, in the 50 years ending 1863, December 31, as range. The results of all the meneavological observations are to be understood as required. The results of all the meneavological observations are to be understood as required. The resident inspector on board the ship, by permission of Lieut-Colf the resident inspector on board the ship, by permission of Lieut-Colf hr. P. A. on the 3d; increased from 29 98in. at the beginning of the week to the New Pub.
legree	of Hu-	Satura-	being repre-	sented by 100.			75	62	78	64	81	182		reading selfund to reading selfund wet the wet the wet the wet the selfund sel
	Between n	_	the day and mean tem-	*	c	- 8.4 -12.4	-13.4 - 7.9	-11.3	-19.3	-12.3	-12.1	17		THE SECTION OF THE SE
DIFFERENCE	Point			Least. on	0	1.1	1.6	2.3	8.0	4.6	61	16		The height of the sea, of the Royal S of A.A., 10001 S of
DIFF	Between Dew Point	Temperature and	Air Temperature	Great-	0	8.5	9.4	11.0	12.4	7.3	00	15		
	Betwee	Ten	Air To	daily value.	C	5.0	8.7	5.5	5.6	5.5	4.9	14		gilt.  prevelent till lines.  A little sloud night. Snow fell Hoar frost at from time to from time to from time to stone, the snow, fell the sloudlesse.
		Water of	ch, by	Lowest	C	36.2	35.0	34.2	33.5	32.7	34.6	13		set till 10h. t.ught. t.ught. t. till 10h. t. tillnes. t. A little at night. Snc fight.
		In the W	Greenwich, by self-registering	Highest.	-	38.6	37.8	36.8	36.4	35.8	37.3	12	HERE	Generally overcast till 10h. A.M. ng. Hoar frost at night. w feil sparingly at times. and fog prevalent. A little cloud riable in amount at night. Snow feil saly in the day. Hoar frost at de chared rapidly from time to de chared rapidly from time to de chared rapidly from time to de schared rapidly from time to de sparingly and ghoomy at noon, the y forgey and ghoomy at noon, the su present in alternoon; doudless at night.  Vercast throughout, Snow feil
888	Lowest	-	a self-			18.0	12.3	22.0	11.0	14.0	17.6	=	A'TMOSPHERE.	orning. Generally overcast till 10h. A.M. mid evening. Hour frost et night. g. Snow fell sparingly at times. the hase and fog prevalent. A little cloud i very variable in amount at night. Snow fell on any very variable at night. Snow fell occasionally in the day. Hoar frost at the clouds channed rapidly from time to evening. Occasional snow. Strong gusty, Very foggy and gloomy at moon, the kith clouds present in affernoon; douldess, and loggy at night.  Sight foo prevalent. Snow fell slight foo prevalent.
Devices of Threwowerers.	Highest in			blackened bulb in vacuo, placed on the Grass.		56.6	36.3	36.4	28.7	33.9	40.7	10	AND	
T 00 0	1000	Dew Point.	Mean	daily by	(	31.9	22.1 30.5	25.5	16.8	23.5	24.9	6	SKY	n early uternoon in more than clood day. So da
E A DIN	LEADIN		Mean	daily value.			28.8	30.7	22.4	29.0	29.8	00		Snow fell in early morn Cloudless in atternoon and How frost in morning, the evening, then cloudless A very fine day; Yight present during the day; Yight fell occasionally. Cloudy throughout the d in early morning, and oo night. Hoar frost in morning, sty being overest. Likit at other times. Hazy and Hoar frost in morning at other times. Hazy and Hoar frost in morning thinly during the day.
		у.	Range	in day.		7.5			10.1	12.2	2.6	1		Sno Cloud Hor the expression of the expression o
		Dry.		Low- est.		30.5			18.6	21.3	25.1	9		Jo non of
				High-		38.0	33.2	35.5	28.7	33.5	34.8	l us	MITX.	aratus
ISARO-	METER.	daily	rected rected	duced to 32 degr. Fahren-	i	29.882 38.0 3	Last Qr. 30.075 33.2	29.933	30.317	30.186	30.047	4	ELECTRICITY	ELECTRICITY. The electrical apparatus out of
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				DAY.	B.	00.	4 10 0				-   .	mus	-	00 4 10 00 1- 00 00
		1 NO F	18/1:	Month and DAY.	DECEMBER.	SUNDAY	TUESDAY.	THEREDAY	T T T T T T T T T T T T T T T T T T T	SATIRDAY.	MEANS	No. of Columns	DATE	DATE.  DECEMBER.  NONDAY  TURSDAY  TURSDAY  THURSDAY  FRIDAE  FRIDAE  SATURDAE

# WEEKLY RETURN

# BIRTHS AND DEATHS IN LONDON

OF THE UNITED KINGDOM.

By Authority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 50. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, DECEMBER 16. [Price 1d.

General Register Office, Somerset House, 18th December 1871.

During the week ending Saturday the 16th instant, 5075 births and 4780 deaths were registered in London and Nineteen other large Cities and Towns of the United Kingdom. The aggregate mortality last week in these towns was at the

rate of 35 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality in the Seventeen English Cities and Towns were as follow:—London 34 per 1000; Portsmouth 23, Norwich 49, Bristol 32, Wolverhampton 62, Birmingham 30, Leicester 30, Nottingham 52, Liverpool 32, Manchester 40, Salford 33, Bradford 28, Leeds 29, Sheffield 37, Hull 25, Sunderland 44, and Newcastle-upon-Tyne 30. The fatal cases of small-pox in these seventeen towns, which in the five previous weeks had steadily increased from 153 to 255, further rose last week to 289; of these, 106 occurred in London, 43 in Sheffield, 35 in Norwich, 29 in Nottingham, 27 in Wolverhampton, 10 in Newcastle, 9 in Sunderland, 7 each in Salford and Birmingham, 5 in Hull, 4 in Leeds, and 3 each in Bristol and Manchester. These numbers showed a considerable increase in Sheffield, Nottingham, and Norwich. The annual death-rate from this disease was equal to 23 per 1000 persons living in Norwich, 21 in Wolverhampton, 17 in Nottingham, 9 in Sheffield, 5 in Sunderland, 4 in Newcastle, 3 in Salford, 2 in Hull and London, and one in Birmingham.

In Edinburgh the annual rate of mortality from all causes last week was 34 per 1000 persons living, in Glasgow 39 per 1000, and in Dublin 42; the 249 deaths in

Dublin included 26 from small-pox, equal to an annual rate of 4 per 1000.

In Paris 929 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 27 per 1000 of the estimated population. In Brussels 108 deaths occurred in the week ending the 9th, and the annual death-rate was 30 per 1000. In Berlin during the week ending the 14th, 653 deaths were recorded (including 163 from small-pox), showing an annual rate of 38 per 1000. In Vienna the 382 deaths in the week ending the 9th gave an annual rate of 32 per 1000. In Rome 199 deaths were registered in the week ending the 3d, and the annual death-rate was 46 per 1000.

and the annual death-rate was 46 per 1000.

In the City of New York 437 deaths were registered in the week ending

25th November, and the equivalent annual rate of mortality was 24 per 1000.

In Bombay the deaths registered during the week ending the 21st ultimo were

312, and the mortality was at the annual rate of 20 per 1000.

In London 2263 Births and 2121 deaths were registered last week. After making due allowance for increase of population, the births were one below, while the deaths exceeded by 491, the average numbers in the corresponding week of the last ten years. The annual death-rate in London, which in the three previous weeks had been 30, 31, and 30, rose last week to 34. The rate was 29 in the West, 38 in the North, 33 in the Central, 36 in the East, and 32 in the South Districts of London,

The 2121 deaths in London included 106 from small-pox, 97 from measles, 37 from scarlet fever, 7 from diphtheria, 99 from whooping-cough, 42 from different forms of fever (of which 9 were certified as typhus, 23 as enteric or typhoid, and 10 as simple continued fever), and 15 from diarrhea; thus to the seven principal diseases of the zymotic class 403 deaths were referred, against 280, 337, and 379 in the three preceding weeks. The fatal cases of measles and whooping-cough showed a further increase upon the numbers in recent weeks. The deaths from measles were most numerous in Kensington, Hampstead, Pancras, Islington, Shorcditch, Bermondsey, and Wandsworth; from scarlet fever in Kensington, Spitalfields, and Sydenham; and from whooping-cough in Marylebone, Islington, Bethnal Green, and Mile End Old Town.

[50.]

The increase in the deaths from small-pox in London, which has been noticed in recent weeks, was fully maintained last week; during the past four weeks the fatal cases have steadily increased from 67 to 106, the latter number exceeding by 87 the corrected average weekly number in the ten years 1861-70. In the four small-pox hospitals at Hampstead, Islington, Homerton, and Stockwell, 46 deaths were returned, against 20 and 36 in the two preceding weeks. Six fatal cases were recorded in St. George (Camberwell), and 4 in Poplar sub-districts.

Excepting only the 15th of November, the mean temperature was continuously below the average from 2d November to 13th December, both days included; the average daily deficiency in these 40 days was 7°·1. During the four days ending Saturday last there was an average excess of 2°·5. The considerable increase of deaths last week was principally due to the greater fatality from bronchitis, to which 482 deaths were referred, against 457 and 357 in the two preceding weeks;

the fatal cases of phthisis also rose from 179 to 224.

Enteric fever has declined, and it is probable that the sudden increase of deaths from this cause was due to the sudden depression of temperature which set in on the 4th, and attained the lowest pitch on the 8th of the month. By inducing pulmonary complication, the cold proved fatal to the system suffering from the fever in its advanced stages. This shows the vital importance of sustaining the night temperature as well as purity of air in enteric fever. With the mild weather the deaths will decline; but the great excess of the week arises from the accumulation of deaths from bronchitis and other diseases previously contracted.

The following cases of complicated typhoid fever were recorded, in addition to those printed last week; a retired grocer, aged 38 years, died on the 15th instant, from "typhoid fever, 10 days, congestion of lungs, 4 days;" a housekeeper, aged 53 years, on the 14th, from "typhoid fever, 13 days, pueumonia, 4 days;" a blacksmith, aged 37 years, on the 11th, from "typhoid fever and bronchitis, 13 days;" the son of a packer, aged 3 years, on the 15th, from "pneumonia and enteric fever;" the daughter of a gentleman, aged 7 years, on the 11th, from "typhoid fever,

3 weeks, congestion of lungs, 8 days."

To different forms of violence 66 deaths were referred; of these, 54 were the result of accident or negligence, including 24 from fractures and contusions, 13 from burns and scalds, 12 from suffocation (including 10 infant cases), and one each from poison and drowning. Of the deaths from fractures and contusions, 5 were caused by horses or vehicles in the streets. Four cases of suicide, 4 of manslaughter, and 2 of infanticide, were registered during the week.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 30.23 in.; the highest reading was 30.33 in. on Tuesday morning, and the lowest 30.13 in. on Saturday morning. The mean temperature of the air was 39°.9, or 0°.6 below the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature was below the average on the first three, and showed an excess on the last four days of the week; on Sunday the mean was only  $34^{\circ}\cdot 0$  and  $7^{\circ}\cdot 0$  below the average, while on Thursday it had risen to  $43^{\circ}\cdot 7$ , or  $3^{\circ}\cdot 3$  above the average. The highest day temperature in the shade was  $47^{\circ}\cdot 2$  on Thursday, the lowest night temperature 27° 2 on Monday; the entire range of temperature in the week was, therefore, 20° 0. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 72°·2 on Tuesday. The difference between the mean dew-point temperature and air temperature averaged 2°.7. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 34° 3 last week. The mean degree of humidity of the air was 90, complete saturation being represented by The general direction of the wind was W. and W.S.W., and the horizontal movement of the air in the week averaged 6 miles per hour. Rain fell on the last four days of the week, but only to the amount of '10 of an inch.

The mean temperature of the week in the other large English towns furnishing returns ranged from 36°·6 in Norwich, to 44°·0 in Bradford; the lowest recorded night temperature was 23°·0 in Norwich, and the highest day temperature in the shade 50°·9 in Birmingham. Rather more than three quarters of an inch of rain fell in Manchester and Salford; the amounts measured in the other

towns varied from '05 of an inch in Bradford, to '38 in Liverpool.

In Centigrade degrees the mean temperature of the air at Greenwich was 4°·4, or 0°·3 below the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 8°·4, the lowest night temperature showed 2°·7 of frost, and the highest temperature in the sun was 22°·3. The wind blew at the rate of 10 kilometres an hour, and the rain-fall measured ·25 of a centimetre.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 202,103 cubic metres, and at Barking 246,915 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FIFTIETH Week of Ten previous Years.

Total Births  Males Females .	1861 1800 924 876	1862 1886 953 933	1863 2100 1112 988	1864 1952 951 1001	1865 2098 1096 1002	1866 2074 1029 1045	1867 2146 1127 1019	1868 	1869 2229 1145 1084	2111 1092 1019	Weekly Average in 10 Years. 2057.9 1057.4 1000.5	2263 1134 1129
Total Deaths Males Females .	1283	1408	1357	1449	1440	1389	1700	1486	1566	1737	1481·5	2121
	641	700	702	736	750	714	860	755	793	897	754·8	1036
	642	708	655	713	690	675	840	731	773	840	726·7	1035

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	Sept. 23.	Sept.	Oct.	Oct. 14.	Oct. 21.	Oct. 28.	Nov. 4.	Nov. 11.	Nov. 18.	Nov. 25.	Dec. 2.	Dec. 9.	Dec. 16.
TOTAL Deaths	1411	1390	1283	1275	1291	1364	1400	1365	1626	1863	1918	1856	2121
Deaths under 5 years of age - Deaths 5—20	686 97	590 107	539 121	497 103	492 100	527 115	552 129	571 106	688 119	742 118	813 121	809 126	865 133
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	201 203 181 43	206 245 202 40	178 212 183 48	202 203 221 49	197 206 238 - 58	213 230 236 43	201 224 230 64	206 209 221 52	222 239 296 62	250 342 338 73	233 315 359 77	247 284 322 63	272 352 409 90
Deaths from Small-pox -  "Measles - "Scarlet Fever - "Diphtheria - "Whooping-cough "Typhus fever - "Enteric (or Ty-phoid) fever - "SimpleContafever - "Diarrhoa - "Simple Cholera - "Phthisis -	89. 23 27 7 24 3 12 6 205 2	51 18 36 6 30 8 23 8 153 7	72 25 38 5 36 4 21 7 80 1	61 34 29 9 27 6 24 12 69 2	53 34 40 6 23 11 15 9 46 1	61 36 31 6 40 4 23 10 32 1	61 45 38 4 51 4 36 7 19	54 42 32 5 42 6 32 7 21 2	76 49 40 6 36 5 27 7 17	67 60 34 4 64 4 27 13 7	78 83 39 10 72 12 19 8 16	104 81 34 10 85 6 35 10 14	106 97 37 7 99 9 23 10 15
", ", Bronchitis ", Pneumonia - ", Heart Disease - "	62 37 54	83 39 71	84 56 60	113 62 73	120 80 58	179 84 74	190 81 71	180 105 61	287 115 85	380 162 88	457 132 103	257 155 77	482 139 93
Mean Temperature of the Air	53.6	50.5	51.9	45.5	53.5	46·9	47.3	39.2	35.3	34.3	36.4	29.8	39.9
Mean Temperature of the Water of the Thames -	60.1	56.2	53.7	52.7	51.5	51.6	49.8	46.6	42.1	38.5	38.0	36.0	34· <b>3</b>
Humidity of the Air	70	88	80	80	91	90	81	84	84	86	89	81	90
Rain-fall in inches	0.10	3.34	0.77	0.00	0.55	0.01	0.04	0.03	0.29	0.10	0.12	0.04	0.10



Table 3.—Births and Deaths registered, and Meteorology, during the Week ending Saturday, the 16th day of December 1871, in the following large Towns.

CITIES	Area	Population estimated	Persons	Births registered	DEATHS registered		ATURE OF AHRENHE	THE AIR.	THE AIR.	RAIN	FALL.
BOROUGHS.  (Municipal Boundaries for all except London.)	in Acres.	to the middle of the Year 1871.**	Acre. (1871.)	during the Week ending 16th Dec. 1871.	during the Week ending 16th Dec. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the 10aily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Centi metre
Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	5075	4780	51.2	23.0	40.4	4.66	0.31	0.79
LONDON	77,997	3,263,872	41.8	2263	2121	47.2	27.2	39.9	4.39	0.10	0.25
PORTSMOUTH	9,513	113,450	11.9	68	50	50.6	25.6	38.7	3.72	- 0*07	0.18
Norwich -	7,472	80,533	10.8	51	75	45.5	23.0	36.6	2.55	0.58	0.71
BRISTOL	4,688	183,298	39.1	112	113	, -;	; - i,			7 2 4	2.5%
WOLVERHAMPTON -	3,387	68,476	20.2	58	81	47.0	27.3	39*3	4.06	0.08	0.50
BIRMINGHAM	7,831	344,980	44.1	294	200	50.9	29.7	41.8	5.44	0.06	0.12
LEICESTER	3,200	95,882	30.0	91	56	49.0	24.5	38.8	3.77	0.07	0.18
NOTTINGHAM	1,996	. 86,929	43*6	62	87	48.0	26.1	38*9	3.83	0.06	0.12
LIVERPOOL	5,108	494,649	96.8	354	304	49.0	30.8	43.0	6.11	0.38	0.97
MANCHESTER	4,486	356,099	79.4	245	270	47.5	31.0	38.7	3.72	0.83	2.11
SALFORD	5,172	125,422	24.3	122	80	47.5	29.2	38.7	3.72	0.83	2.11
BRADFORD	6,590	146,987	22.3	121	78	50.3	33.6	44.0	6.67	0.02	0.13
LEEDS	21,572	260,657	12.1	168	144	50.0	35.0	42.4	5.78	0.13	0.33
SHEFFIELD	22,830	241,507	10.6	198	169	48.0	35.2	42.3	5.43	0.06	0.12
HULL	3,562	122,266	34.3	101	59	48.0	27.0	38.3	3.20	0.16	0.41
SUNDERLAND	3,306	98,797	29.9	68	83		:	-			-
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	96	75	48.0	35.0	42.6	5.89	0.37	0.94
EDINBURGH	4,427	201,728	45.6	113	130	49.0	27.0	38.5	3.61	0.20	1.27
GLASGOW	5,063	479,227	94.7	349	356	48.8	27.6	41.2	5.11	1.42	3.61
DUBLIN	9,745	310,565	31.9	141	249	51.2	32.8	43.7	6.20	0.50	0.21

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by addin 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs showe a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

TABLE 4.—DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Week ending Saturday the 16th day of December 1871.

	ANNUAL RATE				Th	e DEAT	THS reg	istered	in the	Week i	nelude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of MOR- TALITY per 1000 living.	from ALL CAUSES.	Under 1 Year of Age.	Years of Age and up-wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhes.	Violence.	Inquest Cases.	In Public
Total of 17 Towns -	34	4045	840	911	289	127	80	10	161	119	38	121	244	59
LONDON	34	2121	430	499	106	97	37	7	99	42	15	66	136	36
PORTSMOUTH	23	50	11	17	-	5	_		2	1	-	2	4	
NORWICH	49	75	16	13	35	-	-	-		2	2	-	1	
BRISTOL	32	113	15	33	3	1	3	-	2	2	1 -	3	5	1
WOLVERHAMPTON -	62	81	11	18	27	2	1	1	3	2	_	5	4	
BIRMINGHAM	30	200	46	44	7	1	4	1	5	6	3	3	17:	2
LEICESTER	30	56	15	15	-	1.		_	1	1	3	1	3	1
NOTTINGHAM	52	87	13	22	29	-	1		-	2	-	3	7	1
LIVERPOOL	32	304	72	79	1.	6	7	-	8	13	2	15 :	28 :	4
MANCHESTER	40	270	53	55	3	1	8	-	18	7	4	12	20	4
SALFORD	33	80	17	11	7		1	-	5	2	2	1	2	1
BRADFORD	28	78	22	10	-	-	=	-	3	6	-	-	1	
LEEDS	29	144	35	35	4	3	2	-	9	5	1	3	3	1
SHEFFIELD	37	169	40	21	43	4	7	_	4	4	2	3	6	
HULL	25	-59	11	10	5	1	1	-	1	2		1	2	
SUNDERLAND	44	83	14	16	<b>19</b> .	5	7	-	1.	18	_	-	1 -	1
NEWCASTLE-ON-TYNE -	-30	75	19	13	10	-	1	1	-	4	4	3	5	
DUBLIN	42	249	-38	-54	26	-	9	-	4	13	5	6	6	9

TABLE 5.—DEATHS in LONDON Registered in the FIFTIETH Week of the Year 1871.

TABLE OF	-DBAI	113 111	110	JAD	OI4	Itte	5151	or cu	in the Piritain Week	or the	I car						
	Are Many (1997)  ALL Under (20)  AGES. (20)  And (20)  A										Satu	ırday	ne W	cemi	er 16	3, 187	1.
	h We		Deat	ths o	f Per Age	sons s	of			ars 1		Dea	ths o	f Per Age	sons	of	
CAUSES OF DEATH.	Fiftiet te 10 ye				ler 40.	ler 60.	ler		CAUSES OF DEATH.	Averages of the Fiftieth Week the 10 years 1861-70.	ALL AGES.	Un 2		ler 40.	ler 60.	ler 80.	and .
	in th				d und	d und	d und	ears		in th	Mean			d under	d und	d und	Years upwards.
Mean Temperature -	43*3	39.9	0-6.	2-20	20 and	40 and	60 and	Van V	Mean Temperature -	43.8	Tem. 39.9	0-5.	5-20.	20 and	40 and under	60 and under	Aun Aun
ALL CAUSES	1481.5	2121	865	133	272	852	409	90	9. Stricture of Intestines - 10. Fistula	·6 ·7	8		-	1	-	2	H
SPECIFIED CAUSES	1467.7	2114	862	133	272	352	406	89	11. Stomach Disease, &c 12. Pancreas Disease, &c	6.3	10	1	1	1	8	3 -	1
I. ZYMOTIC DISEASES.							ı		13. Hepatitis	2'4 2'9 12'4	1 16	1	-	- 1	10	- 4	E
ORDER 1.  1. Small-pox  2. Measles	17°2 37°4	106 97	37	31 9	32	5	1		16. Spleen Disease, &c	12.2	-	-	_	-	-	-	
3. Scarlet Fever (Scarlatina) 4. Diphtheria	90.2	37 7	88 20 4	14 2	8	-	-		ORDER 5.	1.2	3	1	٥	1	1	-	-
5. Quinsy	17:5	15	14	1	-	-	-	1 1 1 1	2. Ischuria 3. Bright's Disease (Nephria) 4. Diahetes	7.8 1.5	1 5 2	E		2	1 1 1 1	2 1	E
- Enteric or Typhoid Fever	61.3	99 9 23 10	95 3 3	2 8	8 6 1	1 2	3	ĩ	5. Calculus (Stone)	:4	3		-	1 4	1 4	1 2	
- Simple continued Fever -) 9. Erysipelas	7.9	13	3 3 6	4	1 2 3	3	3 1 2		7. Kidney Disease, &c ORDER 6.	7.9	10		_	4	4	2	_
10. Puerperal Fever (Metria) 11. Carbuncle 12. Influenza 13. Dysentery	3.6 1.0 1.8	3	- 1	111	8 -	-	-	1 1 1	1. Ovarian Dropsy 2. Uterus Disease, &c	*6 4*3	- 2	<u>-</u>	-	2	-	-	-
14. Diarrhœa	14:7 :5 :2	15 - 1	12	1	- 1	1	1 -	B	ORDER 7.  1. Synovitis (Arthritis) — 2. Joint Disease, &c. —	5.0	- 5		3	-	- 2	-	-
17. Remittent Fever 18. Rheumatism 19. Other Zymotic Diseases -	9.8	8 2	1 2		3	4	-	E	ORDER 8.	2.4	g	2			1		
ORDER 2.	-4					-			2. Ulcer	1.0	3 2 1	1		-	1	-	1
2. Stricture of Urethra - 3. Hydrophobia 4. Glanders	6.4 1.3 .4	1	4	1 -	-	2		E	IV. DEVELOPMENTAL DISEASES.								
ORDER 3.	-3	1		_	_		1		ORDER 1. 1. Premature Birth	19.5	23	23	_	Ŀ	-	_	
2. Want of Breast-milk - 3. Purpura and Scurvy -	7.2	12 2	12	-	2		- 1	۱	2. Cyanosis	2·5 ·9 2·2	3 2 3	2 2 3	-	1	-	-	-
4. Alco-ja Del. Tremens - holism   b Intemperance -	1.3	5 2	E	=	2	8 2	-		4. Other Malformations - 5. Teething	12.8	12	12	Ē	_	-		
ORDER 4. 1. Thrush	2.5	5	5	-	-	-	-	I	ORDER 2.  1. Paramenia  2. Childbirth (see Puerperal)	*2	_	-		-		-	-
I. CONSTITUTIONAL DIS						_	_		Fever) ORDER 3.	2.8	3		-	2		_	-
ORDER 1.  1. Gout	1.4	3 9	- 1	-	ī	3	- 5	- 1	1. Old Age	56.1	67	-	-		-	31	36
3. Cancer 4. Cancrum Oris (Noma) -	29.8	30	1	1	1 -	18	10		ORDER 4.  1. Atrophy and Debility -	52.6	60	53	_	-	1	6	-
5. Mortification ORDER 2.	4.0	5	1	_		1		2	V. VIOLENT DEATHS, &c.								
1. Serofula	8:0	7 24 224	3 22 13	3 2	1	-		Ē	ORDER 1. (ACCIDENT OF NEGLIGENCE.)								
4. Hydrocephalus	153·0 27·6	18	18	16	113	68	14		1. Fractures and Contusions 2. Wounds	15.0	24 1	1	3	8	5	7 1	-
III. LOCAL DISEASES. ORDER 1.									3. Burns and Scalds	1.0 8.1 1.0	13	8 -	1	ī	2	2	
1. Cephalitis	11.8	10 50	5 3 1	4	2	10	32	3 4	5. Drowning	4·3 8·7 1·7	1 12 2	11	ī -	-	- 1	ĩ 1	-
8. Paralysis	32.3	50 34 3	-	1 -	3 2	8 -	17	4	ORDER 3.	1,				_			
5. Chorea       -       -       -         6. Epilepsy       -       -       -         7. Convulsions       -       -       -	6.6 48.7	9 56	- 56	1	8	8	2		(Homicide.)								
8. Brain Disease, &c ORDER 2.	17.8	15	3	1	ī	5	4	1	1. Murder and Manslaughter ORDER 4.	2.2	6			2			_
1. Pericarditis 2. Aneurism	2·8 2·4	2 5	-	-	1	1 8	ī	H	(SUICIDE.)	•4							
3. Heart Disease, &c ORDER 3.	63.4	93	1	5	12	30	41	4	1. Wounds {Gunshot - Cut, Stab	1.2	2	=	- 1	1	1	=	E
1. Laryngitis 2. Bronchitis	7.3 202.1 3.7	9 482	8 175	5	18	93	164	28	3. Drowning	1.0	2	-	1	1	-		-
3. Pleurisy	105.7	189	94	4	10	12	19	H	5. Otherwise	.5	-	-			_		-
6. Lung Disease, &c	19.1	30 39	22	1	2	18	77	2 2	ORDER 5. (EXECUTION.)								
ORDER 4.  1. Gastritis	1.2	1 2	ī	-	- 1	-	1	H	1. Hanging :	-1	_	Ë		_	-		
3. Peritonitis	4.8 5.4 2.8	8 4	Ħ	1	3	2	2.	2	Violent Deaths (not classed)	:2	2	-			2		
5. Ulceration of Intestines - 6. Hernia	2·3 5·6 2·6	2 5		-	1	3	-	ī	Sudden Deaths (Cause un-) ascertained)	2.9	2	1		-	-	-	1
8. Intussusception	2.6	3 2	ī	1 -	-	-	2	B	Causes not specified or ill-	10.9	Б	2			-	8	
Note Where a person is	" found	drowne	d" 1	the c	coron	ers.	as in	son	ne other cases, do not always suc	ceed in di	scoveri	ng w	heth	er th	e cas	e is	

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

## 424 Population, Total Births and Deaths, and Deaths from some Zymotic and other Cau

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-pox, Measles, Scarlet during the Week ending

												du	ring i	the	w ee.	k end	ling
		during	during				The	DEAT	ns reg	gistere	d in t	he W	ek in	clude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total Births dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	3,251,804	2263	2121	430	499	106	97	37	7	99	9	23	10	15	66	136	366
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS SOUTH DISTRICTS	561,189 751,668 333,887 638,928 966,132	334 465 197 536 731	318 550 211 440 602	56 103 45 92 134	101 103 46 97 152	2 56 5 12 31	11 41 6 18 21	6 10 2 8 11	3 1 3	9 27 10 27 26	2 3 1 2	6 6 4 8	1 ' 2 1 2 4	3 1 3 6	8 18 7 10 23	23 34 22 22 35	51 114 35 76 90
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H	58702 88082 91883 28651 6662 36080 23378 26419 23278 21389 18700 18020 58043 88470 27640 10453 12855 10279 17555	45 10 42 13 2 27 19 12 15 20 9 5 33 33 18 - 7 7	31 14 46 11 6 16 17 11 25 18 12 9 30 20 17 3 14 9	8182223 121 21873 -118	87 17 27 5 4 14 7 3 7 1 5 1 7		1 1	2 3	1	1 1 1 2 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	2 2 2	525111113 1218 1111	1 5 2 2 - 5 - 15 - 5 8 1 7 - 5
NORTH DISTRICTS.  All Souls Marylebone HH	28374 15419 26387 21795 38392 83110 32271 38192 29360 29216 88562 18066 68198 97801 115948 9810 6599 28076 50087	17 3 16 23 21 20 12 26 17 17 22 17 52 74 67 4 1 13 22 21	32 3 20 11 21 17 37 17 80 17 24 12 44 81 81 81 85 16	9 -1 4 7 4 5 1 5 2 1 2 9 19 18 8 6 2	4 9 -4 3 5 4 10 2 4 2 10 9 18 - 9 8 8 2	21 1 2 2 2 4 2 - 19 8	1 4 2 2 3 2 - 2 15 7 - 2 1	1111222		8 	1	1 3 1		THE PROPERTY OF THE PERSON OF		1 - 3 1 1 1 - 4 6 2 4 1 3 6 - 1 - 1	8 18 1 
CENTRAL DISTRICTS.  St. George Bloomsbury St. Giles South WH	17843 19089 16497 11826 9831 9831 9831 10711 10721 107	7 10 16 9 2 3 9 12 10 3 13 6 6 10 15 13 21 8 8 7 7 4 8 3 5 - 1 2	9 17 8 6 8 8 3 8 19 13 6 4 6 11 12 8 8 5 7 7 6 15 8 8 15 7 7 7 6	3 4 2 2 7 4 1 - 3 3 2 2 5 1 1 2 1	242 221 4221225 111 4113 221	1 3 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			111111111111111111111111111111111111111		1	1	110 1111 111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	122	8 8 7 7 4 8 8 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

—W—Workhouse;

H—Hospital;

L—Lunatic Asylum;

—A Workhouse not belonging to the district in which it is situated.

The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

† Officials of Public Institutions are not in the sub-district of Islington West.

<sup>†</sup> Officials of Public Institutions are not included.

#### - pulation, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 425

FEVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLENCE, &c., registered in each Sub-district Saturday, 16th December 1871.

Saturday, 16th December 1871.																	
111111111111111111111111111111111111111		during	during		***		The I	EATH	s regis	stered	in th	e Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total Births du	Total DEATHS du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch — — — — — — — — — — — — — — — — — — —	12429 16545 27832 26944 24153 19257	7 13 33 22 25 14	7 25 21 9 18 8	7 5 2 2 3	25127	11111	1 3 3 - 1 2	1	ingin.	1 1 1 -	111111		111111		111111	1	141.161
Hackney-road Green, Bethnal Green WHL† - Church, Bethnal Green - Town, Bethnal Green -	29808 42443 26574 21375	25 41 20 17	12 17 15 11	2 2 6 2	2 1 - 2	1	2 -	1111		1 1	1111	1	1111	1111	1111	1111	3 - 1
Artillery Whitechapel Spitalfields - Mile End New Town W Whitechapel North Whitechapel Church H Goodman's Fields Aldgate -	6651 15844 15550 11434 7323 10381 9149	6 24 25 13 8 8 8	2 10 21 6 21 8 10	1 4 8 8 8 8 2	1 5 1 3 1	1	1114111	181111	11136111	1 - 1 1 1	111111		11(111)	111111	1 4 -	1 2 4 -	16
St. Mary St. George East St. Paul St. George East St. John St. George East W	17908 21356 8973	15 23 4	9 19 9	2 3 1	2 8 4	ī	1 -	111	1 1 1	1 3 1	1		-	-	1 1 1	1	- 6
Shadwell W	11623 15930 30025	12 11 28	5 11 12	1 4 3	- 3	ī -		1	1:0:1	.1	72.		7 - 7	3	-	- 2	Ē
Mile End Old Town West Mile End Old Town East WwH -	38126 55020	30 34	29 36	12 3	4 12	2	ī	2	-	4 3		-	-	1	1 1	3	- 4
Bow WwHL†	67777 48500	46 29	73 16	11 5	29 4	4	3 -	·	1 -	ī	1 -		1 -	1.1	4	7	27
SOUTH DISTRICTS.  Christchurch Southwark W	14547 15667 20430 16694 18959 23673 48232 16786	6 14 13 12 21 19 40 11	18 6 11 15 16 10 37	2 1 2 2 4 3 11 8	5 2 3 1 2 10 8	1 2 2 3 -	Perferri	1	116161	1 1 2 1 - 2 2	11111111	1111111		1	3 - 1 - 1	8 - 1 - 2	3 - 4 - 10 -
St. Olave Southwark H	4157 10595 16785 15707 47921 25873	8 9 12 50 15	17 7 7 16 23 11	1 1 5 2	2 - 1 11 6 2	2	2 5	111111	11111	1 1 1 1	111111	111111	Z I I	1111	10 1 1 1 1 m	7	15 2 9 1
Waterloo-road 1st H Waterloo-road 2nd H	14085 18453 19470 35831 41284 81213 85431 12534	14 24 17 87 81 14 22 11	9 12 18 34 19 20 24 9	3 5 12 6 5 7	3 2 3 12 8 5 3	1 87	1 2 - 2	1 2	11111111	3 1 - 1 1		1111111	111111111111111111111111111111111111111	111	11111111	1 2 3 - 1 -	1 1 2 3 1 1 6 1
Clapham HL Battersea W Wandsworth HL Streatham	27348 53988 19797 9438 14479	15 44 15 9 4	17 41 12 5 4	2 11 5 1 2	10 2 1	1 2 -	- 15-1-	1 -	1.	ī ī	11111	1	11111	ī -	1	4 2 1 -	5
Dulwich — — — — — — — — — — — — — — — — — — —	4041 81251 42159 83851	22 28 25	2 20 18 27	4 2 5	- 6 7 6	1 1 6	11		1:	1	1111	ī 1	1141	1111	-	1	9 -
St. Paul Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	49 3 16 11	21 3 12 18	3 -	8 1 6 6	11(1	1111	1111	1 + 1 7	1 -		1111	- - 1	1111	1	1	9
Eltham - Lee Lewisham Village W	4528 16430 11508 19016	4 2 12 15	1 3 4 10	ī	1 8 1	1111	1	3	1,1,1,1	1111	1111	1111	2011	1111	- 1 -	1 2	1
Charlton H Woolwich Dockyard	9503 17229 18319 13028 15290	6 14 18 11 8	4 5 14 5 4	2 4 2 1	1 1 4 2 1	1	11/11	11111	11111	11111		11111	11111	11111	1 -	1111	1 - 1
										-							-

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - Tottenham-court sub-district.

London City - Islington East.

Do. do. - " Hackney sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

Table 7.—METEOROLOGICAL OBSERVATIONS taken at the Royal Observatory, Greenwich, during the Week ending Saturday, 16th December, 1871.
[Under the Superintendence of the Astronomer Royal.]

									Me	teor	ologi	cal	Obs	erv	ations	5.					
				•.	Ozone		:::	;	::	:	:	26		nean	dry dry	laily and sults	well I hy rage	r 31.	d as	the of	and
	RAIM.	Collected	in a Gauge	2nt	is 5 in. above the	Inches	388	10.0	0.00	90.0	Sum 0.10	25		ve the n	at 9h. A	s., Irom the mean The dry The res	P.M., as well termined by The average	ical obse Decembe nd—" <i>lou</i>	nderstoo lf-registe	the dept ed under of Lieut.	the weeth; incre
			Robinson's.	Amount of Horizontal	Movement of Air each day.	Miles.	1119	164	85	151	Sum 1018	24		feet abo	The observations are taken at 91. A.M.; readings of the barometer, the dry these times, are converted into mean	ner, F.E. 1848. The values of edition.	and 9h. ers, as de to each.	ormometring 1863, igher," a	to be u use of se	hip, at register rmission	nning of n the 140 A.M. on t
ı		ers.			Mean of 24 Obs.	lbs.	0.00	0.1	0.0	0.1	:	23		be 159	ations of the	art 1, daily ourth	1. P.M. momet pplied	the the sading and "ha	ons are	olice S nts are by per	e begi r.m. o by 9h.
ı		emomet		onsdnaı	Least.	lbs.	000	0.0	0.0	0.0	. :	64		ed to ]	observ dings	James vans., p. mean les, Fe	on; 3l n ther eing a	from 1 50 year 5+ is re	servati sined k	n" Pe trume ship,	at th by 3h. 13 in.
I	WIND.	from An		Pressure on square foot	Great-	lbs.	0.0	8.0	0.5	8.0	:	21		nsider	The rea	ced by hil. The those sal Taken	M.; no inimul tions b	aisher a the nd tha	ical ob ght. ascert	Scorpic ese ins rd the	18 in. 19 30
		As deduced from Anemometers.	Osler's.		P.M.	wew	W.& WSW.	₩.	WSW.&	Z	wsw.	20	NOTES.	meter is co	and a parameter. The observations are taken at \$10.4.M. The means of the readings of the barometer, the dry meter, observed at these times, eo converted into mean meter, observed at these times, eo converted into mean meter, observed at these times.	ctions dedu sr 31.—See I sduced from Iygrometric	ad at 9h. A aum and m	ed by Mr. G reenwich, i borne in mi	meteorolog	dings of the	Metropolita ised from 3 eased to 30 ; decreased
				General Direction.	A. M.	111.541	WSW.	W.	W. by N.	SSW & SW	W. &	19		The height of the cistern of the barometer is considered to be 159 feet above the mean	teve of the Sea. And reduings of the polymerer are considered to connection when the constitution of the Royal Society's finit glass standard barometer. The observations are taken at 91. A.M. noon; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry thermometer, and the wet thermometer, observed at these times, and the wet thermometer, observed at these times, and the wet thermometer, observed at these times, are converted into mean	daily values by the application of corrections deduced by James visableft, F.K.S., 1091 11/9 years' observations ending 1845, December 31.—See Phil. Tyrans., part 1, 1848. The mean daily dew point and degree of humdity are deduced from those mean daily values of the dry and dew point and degree of humdity are deduced from those mean daily values of the dry and they built permometers by Glaisher's Hygmortical Tables, Fourth edition. The results for a service of the dry of the dry of the property of the property of the dry o	to mean use of the properties of the proper corrections being a point of the P. W.; and 9h. P. W., as well to the mean of the deformation of the dry the momenter, read at 9h. A.K.; noon; 3h. P. W.; and 9h. P. W., as well as the results deduced from the maximum and minimum thermometers, and deformation being applied to each. The average the self-registering thermometers, the proper corrections being applied to each. The average of	temperature of the air is that deformined by Mr. Ghaisher from the thermometrical observa- tions taken at the Royal Observatory, Greenwich, in the 50 years ending 1863, December 31.	than the average. The results of all the meteorological observations are applying to the orbit day, or from midnight to midnight. The temmerature of the water of the Thames is ascortained by the u	thermometers, suspended from the side of the "Scorpion." Police Ship, at the depth of about 2 feet below the surface. The readings of these instruments are registered under the superintendence of the resident inspector on board the ship, by permission of Lieut. Col.	Henderson, K.E., C.B., C.D., COHIMISSOURT or Macrophana rounds.  The reading of the barometer increased from 30.746 in. at the beginning of the week to 30.783 in. by 9h. A.M. on the 12th; decreased from 30.718 in. by 8h. A.M. on the 14th; increased to 30.718 in. by 9h. A.M. on the same day; decreased to 30.718 in. by 9h. A.M. on the 16th; and was 30.22 in. at the end of the week.
ı	Degree	of Hu- midity,	complete Satura-	being	sented by 100.	30	87	. 92	89 91	. 61	06	18		cistern	fint g 1 9h. I	pplicatiding 18 of huners by	iry thered from	r is the	lay, or	e surfa	e baron on the f. on the
the Astronomer Mogue.		Between		the day and mean tem-	the same day on an average of 50 years.*	Oı	1:1	+ 1.3	++ 8.3	+ 3.3	9.0	17			of the Royal Society's flint glass noon; 3h. P.M.; and 9h. P.M.; thermometer, and the wet them	es by the a ervations en and degree thermomet	uany cempons of the danks deduc	ire of the ai in at the Ro ling the 17th	than the average. The applying to the civil of the temperature of	et below th	n, K.E., C.E ding of th by 9h. A.M. a. by 9h. P.J in, at the en
ronom	DIFFERENCE	Point	9	ure.	Least.	0	1.5	1.9	0.7	0.0	1.4	16		he hei	ne Roy ne 3h mome	y valu s, obs point bulb	rvatio	peratus s take	the slipped lying the ten	mome ut 2 fe erinte	nderso he res 13 in. 1 10 21 in 30 22
te ast	DIFF	Between Dew Point	Temperature	Air Temperature.	Great-	0,	40.5	3.1	5.2	2.5	5.1	15			of the the the the the the the the the the			tion tion			
ce of c		Betwee	Ter	Air T	Mean daily value.	0.	4 63 80	2.0	2.5	6.0	2.1	14				ill noon. Ilso fell	enerally	e day.	fternoon	Variable,	Rain fell
rntenaen	*	1 1	In the Water of the Thames at	Greenwich, by self-registering	Highest, Lowest,	0	88.52.58 22.52.54 4.62.45	32.5	32.5	34.0	32.7	13				little cloud till noon. Thin rain also fell	it; then g	Thin rain fell during the day.	Thin misty rain fell in the afternoon	Overcast till noon.	
Super		1	In the V	Self-reg	lighest.   Lowes	0,	85.4 85.4 85.4	35.5	36.2	9.98	35.9	150	HER			eR	till nig	rain fell	rain fel	ercast t	A.M. an
Under the Superintendence of	TERS.			a self-	ing Minimum Thermo- meter.	0	89.0 89.0 89.0	30.5	34.4	81.9	29.1	=	ATMOSPHERE		fog.	y fine, with d	prevalent		in misty		ween 11h.
77	DINGS OF THERMOMETERS.	Highest in	the sun, as	tering Thermo-	blackened bulb in vacuo, placed on the Grass.	0	37.5 41.2 72.2	48.5	54.8	45.5	49.9	10	SKY AND		ut. Slight fog.	morning. Very afternoon and	amounts of cloud prevalent till night; then generally Slight fog.	. Slight fog.		sin fell in the early morning. in the afternoon and evening.	Very gloomy between 11h. A.M. and noon.
ı	T 40 SE		Point.	Mean	daily b	0	85.4 85.4	39.8	40.6 39.8	45.4	37.2	6	SK		ast throughout.	in mor the aft	mounts light fog	Generally overcast.	cloudy and misty.	ell in th	Very g
ı	READIN			Mean	daily value.	0	34.0 34.5 39.5	41.8	43.7	43.8	39.9	00		ı	Overcast ti	Hoar frost in movercast in the soccasionally.	Variable a	nerally	Very cloud and evening.	in rain f ine in th	ereast.
	-		Dry.	Range M	fn day.		8.1.6	7.5	8.6	9.9	8.1	-			0	Ho Over occas	Pa	. g	Ve and	Thin r	Overes
ı	١		۵		Low-		27.5 27.2 36.6	36.9	39.8	39.9	35.6	9		ı				B WAS			
ı					High-		36.3 40.8 44.7	44.4	47.2	45.5	48.7	20	CITY.		1			pparatu		.*	
	BARO-	Mean	_		duced to 32 degr. Fahren heit).	ï	30 · 277	Greatest 30.297	30.200	30.161	30.226	14	ELECTRICITY					The electrical apparatus was out of order.			
	MOON.		i	Phases	Moon.		New Perigee			:	1:	8	E					The el			
				DAV		ER.	. 112	Т 13	15	. 16	1.	mus.	-	,	10	Ħ	12		#	16	79
			1871.	Moure and DAY.		DECEMBER	SUNDAY MONDAY TURSDAY	WEDNESDAY	THURSDAY.	SATURDAY	MEANS	No. of Columns.	DATE.	DECEMBER	SUNDAY .	Monday .	TUESDAY .	WEDNESDAT	THURSDAY.	FRIDAY .	SATURDAY.

### WEEKLY RETURN

#### DEATHS NINETEEN OTHER LARGE UNITED KINCDOM.

By Anthority of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE C.C.

No. 51. 1871. Vol. XXXII. WEEK ENDING SATURDAY, DECEMBER 23.

General Register Office, Somerset House, 26th December 1871.

During the week ending Saturday the 23d instant, 5041 births and 4367 deaths were registered in LONDON and NINETEEN other LARGE CITIES and Towns of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 32 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality in the Seventeen English Cities and Towns were as follow: -London 31 per 1000; Portsmouth 17, Norwich 43, Bristol 29, Wolverhampton 61, Birmingham 24, Leicester 31, Nottingham 55, Liverpool 31, Manchester 31, Salford 34, Bradford 26, Leeds 26, Sheffield 43, Hull 26, Sunderland 45, and Newcastle-upon-Tyne 30. The fatal cases of small-pox in these seventeen towns, which in the six previous weeks had steadily increased from 153 to 289, were last week 284; of these, 90 occurred in London, 59 in Sheffield, 37 in Wolverhampton, 32 in Nottingham, 25 in Norwich, 10 in Newcastle, 9 in Sunderland, 5 in Salford, 4 in Hull, 3 each in Liverpool, Manchester, and Birmingham, and 2 each in Bristol and Leeds. The numbers showed a considerable increase in Sheffield and Wolverhampton. The annual death-rate from this disease was equal to 28 per 1000 persons living in Wolverhampton, 19 in Nottingham, 16 in Norwich, 13 in Sheffield, 5 in Sunderland, 4 in Newcastle, 2 in Hull and Salford, and one in London.

In Edinburgh the annual rate of mortality from all causes last week was 37 per

1000 persons living, in Glasgow 31 per 1000, and in Dublin 33.

In Paris 845 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 24 per 1000 of the estimated population. In Brussels 95 deaths occurred in the week ending the 16th, and the annual deathrate was 27 per 1000. In Berlin during the week ending the 21st, 638 deaths were recorded, of which 139 were fatal cases of small-pox, and 21 of diphtheria; the population of this city, according to the Census taken on 1st instant, amounts to 828,013 persons; the 638 deaths last week, on this population, were equal to an annual death-rate of 40 per 1000. In Vienna the 350 deaths in the week ending the 16th gave an annual rate of 29 per 1000. In Rome 213 deaths were registered in the week ending the 10th, and the annual death-rate was 49 per 1000.

In the City of New York 427 deaths were registered in the week ending

2d December, and the equivalent annual rate of mortality was 24 per 1000.

In Bombay the deaths registered during the week ending the 28th ultimo were 274, and the mortality was at the annual rate of 18 per 1000. In Madras the 239 deaths in the week ending 10th November showed an annual death-rate equal

to 29 per 1000 of the population.

In London 2164 births and 1943 deaths were registered last week. After making due allowance for increase of population, the births were 62 below, and the deaths 370 above, the average numbers in the corresponding week of the last ten years. The annual death-rate in London, which in the two previous weeks had been 30 and 34 per 1000, was last week 31; the rate was 31 in the West, 33 in the North, 26 in the Central, 36 in the East, and 28 in the South Districts.

The 1943 deaths in London included 90 from small-pox, 102 from measles, 28 from searlet fever, 3 from diphtheria, 117 from whooping-cough, 50 from different forms of fever (of which 6 were certified as typhus, 32 as enteric or typhoid, and 12 as simple continued fever), and 13 from diarrhoea; thus to the seven principal diseases of the zymotic class 403 deaths were referred, against 379 and 403 in the two preceding weeks. The fatal cases of measles and whoopingcough showed a further increase upon the numbers in recent weeks, while those of small-pox and scarlet fever had declined. The deaths from measles were most

[51.]

numerous in Chelsea, Pancras, Islington, Bethnal Green, Poplar, Walworth, and Wandsworth; from whooping-cough in Paddington, Marylebone, Islington, Shoreditch, Bethnal Green, Poplar, Lambeth, Bermondsey, Battersea, and Peckham; and two fatal cases cach of enteric fever were returned in Bow, Poplar, and St. Paul

Deptford sub-districts.

The deaths from small-pox in London, which in the four previous weeks had steadily increased from 67 to 106, declined to 90 last week, which, however, exceeded by 66 the corrected average weekly number in the corresponding week of the ten years 1861-70. In the four small-pox hospitals at Hampstead, Islington, Homerton, and Stockwell, 35 deaths were returned, against 20, 36, and 46 in the three preceding weeks. Seven fatal cases were returned in Kentish Town, 4 in Kensington Town, and 3 each in Poplar, Kennington Second, and St. George (Camberwell) sub-districts,

The mean temperature was above the average throughout the week, excepting a slight deficiency on Sunday, 17th instant. Diseases of the respiratory organs, including phthisis, caused 734 deaths last week, against 926 in the previous week; 364 were referred to bronchitis, 117 to pneumonia, and 182 to phthisis, while

in the previous week the numbers were 482, 139, and 224, respectively.

To different forms of violence 50 deaths were referred; of these, 45 were the result of accident or negligence, including 15 from fractures and contusions, 7 from burns and scalds, 3 from drowning, one from poison, and 17 from suffocation, of which 14 were of infants under one year of age. Of the deaths from fractures and contusions 6 were caused by horses or vehicles in the streets. Four cases of suicide, and one of infanticide, were registered during the week.

In the large Public Institutions of the Metropolis 339 deaths were recorded, or 17 per cent. of the total deaths; of these 181 occurred in Workhouses and 142

in Hospitals.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.81 in.; the highest reading was 30.22 in. at the beginning of the week, and the lowest 29.59 in. on Thursday evening. The mean temperature of the air was 41°.6, or 2°.6 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical observations taken at the Royal Observatory. The mean temperature on Sunday, 17th instant, was 39°·1, and 0°·7 below the average, while it showed an excess on each of the subsequent days of the week; the warmest day was Monday, when the mean was 45° · 2, and 5° · 6 above the average. The highest day temperature in the shade was 48° 8 on Tuesday; the lowest night temperature 35° 3 on Friday; the entire range of temperature in the week was, therefore, 13° 5. The highest temperature in the sun, as shown by a self-registering thermometer, with a blackened bulb in vacuo, placed on the grass, was 56°·6 on Sunday. The difference between the mean dew-point temperature and air temperature averaged 2° 2. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police, at the "Scorpion" Police Ship, was 37° 7. The mean degree of humidity of the air was 92, complete saturation being represented by 100. The general direction of the wind was S.W., and the horizontal movement of the air in the week averaged 12 miles per hour. fell on four days of the week to the amount of .51 of an inch, of which .32 was measured on Tuesday evening.

The mean temperature of the week in the other large English towns furnishing returns ranged from 38°0 in Hull, to 42°7 in Liverpool; the lowest recorded night temperature was 26°0 in Hull, and the highest day temperature in the shade 53°7 in Bradford. Rain was measured last week in each of these towns; the amounts varied from 33 of an inch in Bradford, to 91 in Portsmouth.

In Centigrade degrees the mean temperature of the air at Greenwich was 5°·3, or 1°·5 above the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 9°·3, the lowest night temperature 1°·8, and the highest temperature in the sun was 13°·7. The wind blew at the rate of 19 kilometres an hour, and the rain-fall measured 1·30 centimetres.

According to returns furnished by the engineer of the Metropolitan Board of Works, the daily average quantity of sewage pumped into the river Thames at Crossness was 222,751 cubic metres, and at Barking 264,998 cubic metres, equivalent to about as many tons by weight.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FIFTY-FIRST Week of Ten previous Years.

	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	Weekly Average in 10 Years.	1871
TOTAL Births  Males Females .	1902	1923	1927	1847	2109	2134	2161	2206	1943	2083	2023 5	2164
	958	973	994	947	1037	1055	1136	1093	993	1042	1022 · 8	1106
	944	950	933	900	1072	1079	1025	1113	950	1041	1000 · 7	1058
Total Deaths Males Females .	1248	1419	1291	1523	1590	1377	1561	1558	1357	1377	1430·1	1943
	626	700	676	756	816	709	750	789	705	705	723·2	960
	622	719	615	767	774	668	811	769	652	672	706 9	983

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	Sept. 30.	Oct.	Oct. 14.	Oct. 21.	Oct. 28.	Nov.	Nov. 11.	Nov. 18.	Nov. 25.	Dec. 2.	De <b>c</b> . 9.	Dec. 16.	Dec. 23.
TOTAL Deaths	1390	1283	1275	1291	1364	1400	1365	1626	1863	1918	1856	2121	1943
Deaths under 5 years of age - Deaths 5-20	590 107	539 121	497 103	492 100	527 115	552 129	571 106	688 119	742 118	813 121	809 126	865 133	813 119
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	206 245 202 40	178 212 183 48	202 203 221 49	197 206 238 58	213 230 236 43	201 224 230 64	206 209 221 52	222 239 296 62	250 342 338 73	233 315 359 77	247 284 322 68	272 352 409 90	254 319 361 77
Deaths from Smallpox -  " Measles -  " Scarlet Fever -  " Diphtheria -  " Whooping-cough  " Typhus fever -  " Entleric (or Ty-)  phoid) fever -  " Simple Conta fever	51 18 36 6 30 8 23	72 25 38 5 36 4 21	61 34 29 9 27 6 24	53 34 40 6 23 11 15	61 36 31 6 40 4 23	61 45 38 4 51 4 36	54 42 32 5 42 6 32	76 49 40 6 36 5 27	67 60 34 4 64 4 27	78- 83- 39- 10- 72- 12- 19- 8	104 81 34 10 85 6 35	106 97 - 37 7 99 9	90 102 28 3 117 6 32
" Diarrhœa " Simple Cholera -	153 7	80	69 2	46	32	19	21 2	17	7	16	14	15	13
, Phthisis Bronchitis Pneumonia - Heart Disease -	166 83 39 71	143 84 56 60	140 113 62 73	147 120 80 58	157 179 84 74	166 190 81 71	162 180 105 61	160 287 115 85	219 380 162 88	168 457 132 103	179 357 155 77	224 482 139 93	182 36 t 117 99
Mean Temperature of the Air	50.2	51.9	45.5	53.5	46.9	47.3	39.2	35.3	34.3	36.4	29.8	39.9	41.6
Mean Temperature of the Water of the Thames -	56.2	53.7	52.7	51.5	51.6	49.8	46.6	42.1	38.5	38.0	36.0	34.3	37.7
Humidity of the Air	88	80	80	91	90	81	84	84	86	89	81	90	- 92
Rain-fall in inches	3.34	0.77	0.00	0.22	0.01	0.04	0.03	0.29	0.10	0.12	0.04	0.10	0.51

#### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the ineteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.; —W. C. Ellis, Esq., F.M.S., Potsmouth & C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhanpton; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup, Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Shellield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm. Lyall, Esq., Newcastle-on-Tyne.

Table 3.—Births and Deaths registered and Meteorology during the Week ending Saturday, the 23d day of December 1871, in the following large Towns.

						-	_	_	-		
CITIES	Area	POPULATION estimated	Persons	Births registered	DEATHS registered		ATURE OF	THE AIR.	THE AIR.		FALL.
BOROUGHS.  (Municipal Boundaries for all except London.)	in Acres.	to the middle of the Year 1871.*	to an Acre. (1871.)	during the Week ending 23d Dec. 1871.	during the Week ending 23d Dec. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Cent metr
Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	5041	4367	55.5	24.0	40.8	4.88	0.67	1.7
LONDON	77,997	3,263,872	41.8	2164	1943	48.8	35.3	41.6	5.33	0.21	1.3
PORTSMOUTH	9,513	113,450	11.9	- 69	38	49.8	28.0	40.9	4.94	0.91	2.3
NORWICH	7,472	80,533	10.8	51	67	48.5	33.0	40'1	4.20	0.35	0.8
BRISTOL	4,688	183,298	89.1	122	102				-		
WOLVERHAMPTON -	3,387	68,476	20.2	48	80	49.7	29.5	49*1	4.50	0.63	1.6
BIRMINGHAM	7,831	344,980	44.1	263	160	50.2	31.0	40.8	4.88	0.53	1.3
LEICESTER	3,200	95,882	30.0	88	56	49.7	29.5	39.8	4.33	0.45	1.1
NOTTINGHAM	1,996	86,929	43.6	63	92	49.4	23.2	39.8	4.33	0.63	1.6
LIVERPOOL	5,108	494,649	96.8	359	295	53.6	32.1	42.7	5.95	0.34	0.8
MANCHESTER	4,486	356,099	79.4	255	210	51.3	31.0	40.7	4.83	0.73	1.8
SALFORD	5,172	125,422	24.3	98	81	53.0	30.8	40.8	4.88	0.79	2.0
BRADFORD	6,590	146,987	22.3	103	73	53.7	31.4	42.4	5.78	0.33	0.8
LEEDS	21,572	260,657	12.1	231	129	53.0	30.0	42.0	5.28	0.70	1.78
SHEFFIELD	22,830	241,507	10.6	178	198	52.5	27.2	40.1	4.20	0.77	1.9
HULL	3,562	122,266	34.3	92	60	49.0	26.0	38.0	3.33	0.70	1.78
SUNDERLAND	3,306	98,797	29.9	. 85	85			_	_		
NEWCASTLE-ON-TYNE	5,386	128,677	24.1	78	73						-
EDINBURGH	4,427	201,728	45.6	149	142	54.0	24.0	39.7	4.28	0 90	2.2
GLASGOW	5,063	479,227	94.7	354	286	53.6	26.8	40.1	4.20	1.80	4.5
DUBLIN	9,745	310,565	31.9	191	197	55.2	33.2	41.6	7.00	0.56	0.6
		1	1								

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by addir 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs shown a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

Table 4.—Deaths and Rate of Mortality in 17 large English Towns, and in Dublin, during the Wee ending Saturday the 23d day of December 1871.

	ANNUAL		The DEATHS registered in the Week include														
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	of MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence:	Inquest Cases	In Public			
Total of 17 Towns -	31	3742	793	798	284	143	66	8	182	113	21	92	212	540			
LONDON	31	1943	393	438	90	102	28	3	117	50	13	50	128	339			
PORTSMOUTH	17	. 38	9	9		. 4	-	1	1	1	_	1	3	7			
NORWICH	43	67	9	16	25	-	-	_	_	3	-	1	4	5			
BRISTOL	29	102	26	25	2	4	3	-	6	- 3	-	1	1	. 14			
WOLVERHAMPTON -	61	80	22	12	37	1	1	_	- 3	Tana	-		-	6			
BIRMINGHAM	24	160	30	50	3	4	4	1	4	3	2	7	17	14			
LEICESTER	31	56	17	15		1	2	1	_	5	_	l i	1	4			
NOTTINGHAM	55	92	17	. 19/	32	2		-		2	-	3	6	15			
LIVERPOOL	31	295	74	65	3	- 7	18	-	12	8	2	13.	19	45			
MANCHESTER	31	210	45	38	3	_	6	-	16	8	1	2	16	24			
SALFORD	34	81	13	15	5	_	1		4	4		1	5	10			
BRADFORD	23	73	16	14	-	-	2	-	5	1	-	-	-	4			
LEEDS	26	129	33.	24	2	1	_	2	8	2	1	8	4	11			
SHEFFIELD	43	198	50	26	59	4	6		3	8		6	7	28			
HULL	26	60	12	13	4	1	_	-	7	2	1	1	1	5			
SUNDERLAND	45	85	14	10	9	10	4	_	1	11	_	ı î	1	5			
NEWCASTLE-ON-TYNE -	30	73	13	9	10	2	ı		1	2	1	î	î	4			
DUBLIN	33	197	25	51	26	-	4	-	-	77	2	3	5	49			

TABLE 5 .- DEATHS in LONDON Registered in the FIFTY-FIRST Week of the Year 1871.

TABLE 3.—DEATHS IN DONDON REGISTERED IN the FIFTY-FIRST WEEK OF the Tear 10/1.																		
	Averages of the Fifty-first Week the 10 years 1861-70.	In the Week ending Saturday, December 23, 1871.							0	of the Viveek s 1861-70.	In the Week ending 'Saturday, December 23, 1871.							
diamand on Driver	se of t	Deaths of Persons of the Ages							38 OF	st We	Deaths of Persons of the Ages							
CAUSES OF DEATH.	rerage fty-fir 10 year	ALL AGES.		der   9		r 60.	r 80.	pue	CAUSES OF DEATH.	Fifty-first V	ALL AGES.		nder 9	r 40.	r 60.	. 80.	and	
_	A Fi In the	Mean	-	0.	under	under	under	ars surds.		Fir in the	Mean		-	under 40.	under 60	60 and under 80.		
Mean Temperature -	40.5	Tem.	0-5.	5-20.	20 and	40 and	60 and	80 Years upwards.	Mean Temperature	0 40·5	Tem.	0-5.	5-20.	20 and	40 and	0 and	80 Years upwards	
		-				319				1.1						9	×	
ALL CAUSES SPECIFIED CAUSES	1430.1	1943 1939	812	119 119	3 -	318			9. Stricture of Intestines - 10. Fistula - 11. Stomach Disease, &c.	7.1	- 8	ī	ī	-	2	3,		
ZYMOTIC DISEASES.									12. Pancreas Disease, &c 13. Hepatitis 14. Jaundice	3.0	3 3	-	ī	-	2	- 8	13.	
ORDER 1. 1. Small-pox	21.5	90 102	26 95	21	36	7	-	-	16. Spleen Disease, &c	14.2	16	1 -	-	3	9	3		
3. Scarlet Fever (Scarlatina) 4. Diphtheria – – – – – – – – – – – – – – – – – – –	76.0 12.5 1.7	23 8 1	21	5	2	1.1	1 1 1	-	Order 5.  1. Nephritis	1.2	2	1	-	-	-	-1	-	
6. Croup 7. Whooping cough 8. Typhus)	15.8	7 117 6	6 113	1 4 1	1-	- 1	-	-	3. Bright's Disease (Nephria) 4. Diabetes	7.6	5 2 2 3 15	-	-	2	3	2	E	
- Entericor Typhoid Fever - Simple continued Fever -	58.1	22 12	10	9	2 7 2 3	3 2	2 3 1 2	-	5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	1.0 1.0 8.4	3 15	-	1	1	1 7	2 6	-	
P. Erysipelas D. Puerperal Fever (Metria) L. Carbuncle	8·0 4·5 6	12 6 -	5 -	-	6	2 -	-	-	ORDER 6.	-6	- 4	_	-	_	_	_		
2. Influenza	1.1 1.7 12.8	3 13	1 8	1	=	- 2	1 8	-	2. Uterus Disease, &c ORDER 7.	4.4	4		-	2	ī	1		
S. Simple Cholera	3 5 1.3	ī	-	1 12	1	-	-	~	The state of the s	3.6	8	1	4	ī	ī	ī	Ē	
3. Rheumatism	8.6	15	=	1 -	8 -	3 -	3 -	Ē	ORDER 8.	2°1 1°4	4	1	-	-	1	2	-	
ORDER 2. L. Syphilis	6.8	8	8	-	lu l	-	- 3	-		1.1	2	1	-	1	_	_	-	
B Hydrophobia		-	-	-	-	-	-	-	IV. DEVELOPMENTAL DISEASES.									
ORDER 3.  I. Privation	*5 8·2	- 8	- 8	-	-	-	-	-	ORDER 1.  1. Premature Birth 1 2. Cyanosis	17.0	22 2 2	22	-	-	-		-	
3. Purpura and Scurvy - 4. Alco- (α Del. Tremens - holism) b Intemperance -	1.0 2.3 1.9	4 - 2	1	2 -	1	1 1			3. Spina Bifida 4 4 Other Malformations -	1.7 14.9	2 - 13	13	1 -	-		-	-	
ORDER 4.	1:7	2	2	_	_	-	-	-	ORDER 2.	•1								
1. Thrush 2. Worms, &c CONSTITUTIONAL DIS.	-	-		-	_	-		-	1. Paramenia 2. Childbirth (see Puer-) peral Fever)	8.3	5	-	_	5	_	_	-	
ORDER 1.	1.4	3 8	-	_	-	2	1	-	ORDER 3. 1. Old Age	54.5	82	,_	_	-	_	42	40	
2. Dropsy	14.8 24.8	84	- 1	1 1 1	3	16 -	1 2 13	3 2 -	ORDER 4.	53.4	56	44	1	_	6	5	-	
5. Mortification ORDER 2.	3.7	3			_	1	2	-	V. VIOLENT DEATHS, &c.							_		
l. Scrofula	8°3 16°0 153°6	12 22 182	10 2:) 8	2 1 17	87	1 59	11	1 1	ORDER 1. (ACCIDENT OF NEGLIGENCE.)									
4. Hydrocephalus III. LOCAL DISEASES.	25.8	26	22	4	-	_		_	1. Fractures and Contusions 2. Wounds	15·1 -6 7·5	15 2 7	- 4	-	1	7	6 2 2	1 -	
ORDER 1.	13*8	15	. 9	4	1 6	1	_	_	4. Poison	·8 4·2	1 3 17	15	-	-	1 1 3 1	- 1	-	
2. Apo; lexy	\$8.2 28.9 1.7	44 82 6	1 -	1	8	12 8 2	18 19 2	3 1 -	_	8.9		-	_	=	=	-	Ē	
5. Chorea	6.5 49.2	- 4 €0	1 60	-	1	2	-		ORDER 3. (Homicide.)									
B. Brain Disease, &c	18.6	23	4	_	_	8	11	-	1. Murder and Manslaughter ORDER 4.	1.4	1	1			-	_		
l. Pericarditis 2. Aneurism 3. Heart Disease, &c	2°2 2°3 63°1	6 3 99	- 1	1 - 6	2 18	5 1 35	39	-	(SUICIDE.)  1. Wounds {Gunshot Cut, Stab		-	-	-	-	_	-	-	
ORDER 3.	8.1	12	10	2 7	_	-	_	-	3 Drowning	1.1	1	-	-	-	1 1	1 -	-	
B. Pleurisy	3.6 3.6 135.3	364 4 117	152 1 78	7	10 2 16	9	109 1 7	25	4 Hanging 5. Otherwise	1.8	1		ī	-	-	-	-	
5. Asthma	11.6	28 27	11	î	6	10	16	1	ORDER 5. (EXECUTION.)	*								
ORDER 4. I. Gastritis	1.3 4.7	1 3	-	-	-	-	- 1	-	1. Hanging	_		-	-		-		-	
B. Peritonitis	5.1 2.8 2.7	3 1 7	-	-	2 - 3	1 3	-	-	Violent Deaths (not classed) Sudden Deaths (Cause un-)	•2		-		-	-	-		
Hernia	4·1 8·1	5 4 1	-	-	1	1	2	-	ascertained) [	2·0 15·6	4	2	-	-	1	1	-	
Marketin and the following the property of the second seco	46.4		7. 72. 4	150.00	1		a in	a ma	other cases, do not always succeed i	in dieso:	varing	who	hor	the	0000	ia a	_	

Note.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is a suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-Pox, Measles, Scarlet

												du	ring	the	Wee	k en	ding
	Enume	during	during	The DEATHS registered in the Week include													
REGISTRARS' SUB-DISTRICTS.		Total Births du	Total DEATES du	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enterie (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti-
LONDON	- 3,251,80	4 2164	1943	393	438	90	102	28	3	. 117	6	32	12	13	50	126	339
WEST DISTRICTS NOBTH DISTRICTS CENTRAL DISTRICTS EAST DISTRICTS SOUTH DISTRICTS	- 561,189 - 751,668 - 333,887 - 638,928 - 966,132	327 468 222 477 670	335 482 168 437 521	72 94 34 107 86	76 112 32 89 129	8 39 12 81	14 41 3 23 21	3 8 2 8 7	1 - 2	14 28 12 27 36	1 2 - 3	4 5 3 10 10	3 - 1 5 3	1 4 2 2 4	8 12 6 16 8	17 29 12 56 12	70 89 30 66 84
WEST DISTRICTS.  St. Mary Paddington WH - St. John Paddington H - Kensington Town WL - Brompton H - St. Peter Hammersmith - St. Peter Hammersmith H - Fulham WLLLL - Chelsea North-west HWw - Chelsea North-cast L - Hanover Square - May Fair W - St. John Westminster WWIIH St. James's Square Golden Square W - Golden Square F. James Square Golden Square W - St. Anne Soho HH St. Angen Schare Square Square Square Square Square Square Square W - St. Anne Soho HH St. Angen Schare Square S	- 58702 - 38082 - 91583 - 6662 - 23378 - 26419 - 23278 - 13020 - 13020 - 13020 - 15040 - 10453 - 10453 - 12855 - 10279 - 17555	48 9 64 14 5 21 18 14 11 15 8 6 29 24 14 15	25 12 56 13 5 21 16 13 29 17 7 6 21 28 35 3 11	7 12 3 2 9 3 2 8 5 1 1 2 8 10	5404 - 64 . 331 23346 - 5 - 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 4 - 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3122112111		111111111111111111111111111111111111111	1 - 1		111111111111111111111111111111111111111	115	38 151 - 4 1 8 2 6 2 18 - 5 - 2
NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square - Rectory Marylebone WH - St. Mary Marylebone H - Christchurch Marylebone - St. John Marylebone - Hampstead WHH - Regent's Park Pancras - Tottenham-court wH - Gray's Inn Lane H - Somers Town - Camden Town W - Kentish Town W - Islington West* WHHH - Islington East Www - Stoke Newington L Stamford Hill - West Hackney - Hackney Wuhll - South Hackney L -	- 28574 - 24574 - 15419 - 24387 - 21795 - 33819 - 33110 - 33110 - 22936 - 22936 - 22936 - 88562 - 22916 - 88562 - 22916 - 115948 - 68198 - 681	20 3 12 19 25 27 18 19 18 14 22 13 42 62 76 3 6 15 38 16	28 . 4 11 20 17 31 22 166 19 18 25 88 77 66 4 3 0 29 17	5 14 4 3 4 4 4 2 1 12 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	4 1 1 2 4 4 2 4 3 9 11 8 13 18 6 4	19 1 1 7 7 2 1 - 5 2	2 2 1 2 8 19 6 - 2 1 -	1 - 11 21 11		4-11-2-1 1131-1 35-1-121		1 1 3 1 3		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2411411	1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 1 - 1 -	8 - 5 2 21 - 6 5 5 - 6 6 4 8 8 8
CENTRAL DISTRICTS.  St. George Bloomsbury - St. Giles South WH St. Giles North	17843	7 20 8 10 29 4 12 24 14 10 7 10 6 4 7 12 5	7 8 6 8 4 1 1 7 16 7 1 13 10 0 6 2 10 3 3 5 2 2 15 8 1 1 3 2 2 3 7	1222211811422241222211113	1111 31 - 1 - 2 2 2 1 1 2 2 2 1		1			11121111811111	111111111111111111111111111111111111111		1	1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

eur, namery,

"-Workhouse;

II-Hospital;

L-Lunatic Asylum;

w-A Workhouse not belonging to the district in which it is situated.

tendence to district of Talington Wost.

† Officials of Fub † Officials of Public Institutions are not included. \* The Small-pox and Fever Hospitals are situated in the sub-district of Islington West.

## Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 433

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHEA, VIOLENCE, &c., registered in each Sub-district Saturday, 23d December 1871.

Saturday, 23d December 1871.																	
		during	during		-		The I	PEATE	is reg	istere	d in	the W	eek ir	elude			1
REGISTRARS' SUB-DISTRICȚS.	Enume- rated Popu- lation, 1871.	Total BIRTHS dur	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhea.	Violence	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.	-																
Holywell Shoreditch	12429 16545 27832 26944 24153 19257	8 12 24 27 17 12	10 • 15 26 8 15 6	4 2 10 2 5 1	1 4 2 2 1	111111	1 2 - 1	2 - 1	11111	1 2 3	111111	1 1 -	1	1 1 1	1	1 2 4	1 8 -1 -
Hackney-road Green, Bethnal Green WHL† Church, Bethnal Green Town, Bethnal Green	29808 42443 26574 21375	21 45 21 15	26 53 23 7	8 12 7 2	2 14 5 2	1 -	4 2 1	2		1 1 -	1 1 1 1	1 -	1	1111	4 2 -	11 9 -	19
Artillery Whitechapel	6651 15844 15550 11434 7323 10381 9149	5 11 11 11 5 3 4	3 6 14 7 14 5 6	1 - 2 1 1	1 8 1 3	1	1	111111	111111		111111	111111		111111	1 1 1 1 1 1	- - 1 -	9 - 12 -
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	13 6	6 16 3	7 -	2 1 -		ī	ī	-	2 -		ī	-			3 -	=
Shadwell W	11623 15930 30025	8 10 22	6 5 18	1 2 4	ī -	- 2	ī -	-	1 -	1	1 1 1	- 1			1 -	1 1 2	
Mile End Old Town West Mile End Old Town East WwH	38126 55020	28 47	21 28	8 6	3 6	1	ī	2	=	-	-	1 -	1 -	-	1	5	- 4
Bow WwHLt	67777 48500	50 34	54 86	11 7	18 7	1 3	5 3	-	-	8	=	2 2	-	=	3	<i>5</i>	16
SOUTH DISTRICTS.  Christchurch Southwark W	14547 15637 20430 16694 18959 23673 48232 16786	7 8 12 13 10 18 53 12	14 8 8 8 14 11 43 13	5 - 2 1 5 4 4 4	4 2 2 1 2 11 2	1	- 11 - 131	1111111		1 - 1 - 2 1	1111111	1111111		1111111	21111111	2	2 - 2 - 17 -
St. Olave Southwark II	4157 10595 16785 15707 47921 25873	10 10 16 36 19	5 10 11 11 22 17	2 2 4 3 4	1 2 - 4 4 8	1 1 1 1	2 2 2	- 1	1111111	3	111111	1	111111	1	111111	111	4 2 - 3 - 1
Waterloo-road 1st H Waterloo-road 2nd H Lambeth Church 1st Lambeth Church 2nd W Kennington 1st W Kennington 2nd Brixton H	14086 18453 19470 85831 41284 31213 85431 12534	8 22 19 31 26 7 35	6 14 26 23 14 13 29 3	1 1 3 2 2 4 1	2 4 9 7 6 8	- 1 - 3 11 -	1	111	1111111	1885	11111111	- 1 1 1	11111	1	12111	1 2 - 1 - 1 -	15 6 - 10
Clapham   HL	27348 53988 19797 9438 14479	17 87 18 3 6	8 30 16 2 4	1 7 2 - -	2 4 3 - 3	1	1 64.00 1 1	11111	11111	1 1 2 2 1	3 -	1 1 -	1	ī - -	1	2 2	6 5 -
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4041 31251 42159 33851	1 19 26 13	1 14 23 15	3 3 1	1 5 8	1 8	- 1	- -	1111	8		ī	1111	ī	1111	1 1 1 1	4 -
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH	53696 6487 21098 19320	44 4 7 15	18 4 5 10	3 - - 2	3 2 3 3	1 -	1 -	1111	1	2 2 1	1111	2 - 1	1111	1111		1111	- 6
Eltham	4528 16430 11508 19016	5 12 7 15	3 9 5 6	2 1	3 4 2	- - 1	1111	1111	1111	1111	1711	1111	1111	1,111	ī	1111	1
Charlton H Woolwich Dockyard Woolwich Arsenal H	9503 17229 18319 13028 15290	3 6 17 10 10	2 5 4 7	1 - 2	1 1 1 2	- 2 1	11,111	1 -	11111	11111	11111	11111	11111	11111	11111	1111	11111

The following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh. is in Chelsea North-west sub-district.

The Strand - - " " Tottenham-court sub-district.
London City - - " Hackney sub-district.

London City - " Blugton East.

Do. du. - - " Hackney sub-district.

Tottenham-court sub-district.

London City " Mile End Old Town Eastern sub-district.

Stepney - " Bow sub-district.

Bow sub-district.

Bow sub-district.

Bow sub-district.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 23d December, 1871. [Under the Superintendence of the Astronomer Roual.]

î.	_		_	_				2.20000	orog to		-							res.
					Ozone	; :1	::::	:::	:	26		nean nose dry dry	nve aily and	the well by	rva- r 31.	ring out	Col.	S S S
	RAIN.	Collected	Gauge	_	ದ	Inches 0.02	0.00	00.00	Sum 0.51	55		ve the m the with the re taken ster, the	S., from e mean d the dry The res	include P.M., as termined	ical observa- December 31. d — "lower,"	fregister of a b	er the su f Lieut	of the week 21st; decreas of the week.
Ì			Robinson's.	Amount of	Movement of Air each day.	Tiles.	443 258 610	342 116 114	Sum 2047	24		I to be 159 feet above the mean dered to be coincident with those allings of the baromater, the dry fines, are converted that the dry	ther, F.E. US48. The values of edition,	solumn 7, and 9h.	rmometr ny 1863, J gher," an	use of sel at the de	ered underission o	nning of n the 21s ne end of
		neters.	1		Mean of 24 Obs.	lbs.	1.1	9.00	:	23		be 159 d to be observed gs of the	es Glais part 1, daily	th. P.M.	the the	by the	e regist y peru	A.M. on
		nemon		nbs uo	Least.	lhs. 0.0	0.0	0.00	3	222		ed to sidere The readings of tin	y Jan.	xhibir	from 50 year	servan vined Polic	nts ar hip, k	at to
	WIND.	d from	۵۶.	Pressure on square foot	Great-	lbs.	16.8 13.0 30.+	000	:	21		onsider are consineter. of the a	uced by Phil. The those cal Tab	abers e	laisher in the	ight. ascerta	trumer the si	30.22 in. 79 in. sed to
		As deduced from Anemometers	Osler's	Direction.	P.M.	SW.	SW. 28. 16.8 wsv. 28. 13.0 SW&NW. 30.+	wsw. & ssw. E. & NE. SW.	W.	50	NOTES.	ometer is considered to be 159 feet above the mean barometer are considered to be coincident with those andard barometer. The observations are taken at the means of the realings of the barometer, the dry rt, observed at these times, are converted into mean	ctions ded or 31.—Sec- educed from	or the nur ead at 9h. um and m	ed by Mr. Careen by Mr. Careen by Mr. Corne in min	mereorologith to midn Thames is of the "Sco	of these ins on board Metropolits	ased from sased to 29 and increa
				General Direction,	А.М.	N. by E.	SW. WSW.	W. by S. SE. & ESE. NNE. & Calm.	S	19		The height of the cistern of the barometer is considered to be 159 feet above the mean level of the sea. The readings of the barometer are considered to be coincident with those of the Royal Society's line glass standard barometer. The observations are taken at 9h. A.x.; noon; 3h. A.x.; and 9h. P.X. The means of the readings of the barometer, the dry thermometer, and flow yet theoremeter, posserved at these, times, are converted into mean	daily values by the application of corrections deduced by James Grassley, F.L.S., from invegence observations cutting 1845, December 31.—Sec Phil. Trans., part j. 1848. The mean daily dev point and degree of humidity are deduced from those mean daily values of the dry and deve point and degree of humidity are deduced from those mean daily values of the dry and wer hull thermometers by Glasslor's Hyscometrical Tables. Fourth edition. The results	for mean daily temperature of the zir, or the numbers excitibited, in column 7, include the observations of the day thermoreter, read at 90. A.M.; stoon; 30. P.M.; at 190. P.M. as well as the results deduced from the maximum and minimum thermometers, as defennined by as the results deduced from the maximum and minimum thermometers, as defennined by	to self-explorency distributions, the project corrections being appure to extrage temperature of the air is that determined by Mr. Glasiker from the thermometrical observations taken at the Royal Observatory, Greenvich, in the 50 years en ling 1863, December 31, * In reading the 17th column it will be borne in mind that + is read "higher," and — "longer,"	than the average. The results of all the Heckochological conservations are to be unacreasona as applying to the dividingly of from middinglik to middinglik. The temperature of the water of the Whater of the Phannes is ascertained by the use of self-registering them conservates and the side of the "Sorption". Police Ship, at the depth of about them conseters, suspended from the side of the "Sorption". Police Ship, at the depth of about	ne readings inspector nissioner of	The reading of the barometer decreased from 30.22 in, at the beginning of the week 29.12 in, by 5\h, A.M. on the 21st; decreas to 29.72 in, by 9h. A.M. on the 21st; decreas to 29.50 in, by 9h. P.M. on the same day; and increased to 30.02 in, by the end of the week,
ı	Degree	midity,			sented by 100.	95	88 98 86 86	86 97 94	92	18		cistern ne readi ty's flin f.M.; an	applicatinding 18 of hunters by	dry ther	nermon air is th Royal Ot th colum	day, or of the wended from	face. Ty resident R. Comr	ne barol r. on the
Under the Superintendence of the Astronomer Koyal.	<b>E</b>	Between	perature of	the day and mean tem-	the same day on an average of 50 years.*	2.0 —	+++	+++	+ 2.6	17		The height of the level of the Sea. The forthe Royal Socie 9h. A.E.; non; 3h., thermometer, and t	ss by the rvations e and degre thermome	daily temins of the	re of the re of the n at the ling the 17	than the average. Tapplying to the civil The temperature thermometers, suspe	w the sur e of the	ding of the property of the pr
mome	DIFFERENCE	Point	,	Ire.	Least.	0.0	2.3	0.00	1.1	16		of the Rolling Reference of the Rolling Income in the Rolling Inco	v value s obse point bulh	rvatio	peratus s take n read	l the a ying t le ten	adence	zin. b
e Astr	DIFF	Between Dew Point	and	Air Temperature	Great-	3.9	00 00 00 00 00 00	8 1.0	4.5	15		the state						
ce of th		Between		Air	Mean daily value,	1.4	8.8	0.7	61	14		oh. A.M. deat till	nin rain	between	midday	dy after	tht about	morning
ntenden	Tation's	0 111	mes at	ich, by	meters.	34.8	35.2 35.7 37.0	37.0 37.0 37.5	86.3	13		about J	little thin	heavily sgy.	again at avy gale j	st. C'oudy	Fine and bright about	ring the
Superi		T- 4h- T			Inermor Highest.	9.78	37.4 38.6 40.6	89.4 89.6 40.4	39.1	12	PHERF	ry foggy noon we	day. A	id again iy and tog	e. A be	oar fros	M. Fine	loomy du
nder the	TERS.	Lowest	0,	a self-		30.5	35.0 38.5 29.4	29.5	32.4	11	ATMOSPHERE	ing : ve m about	very dull	rning, ar	ınd 3h. A n variabl	with l	nd 3h. A.	Very foggy and gloomy during the morning.
$\Omega$	THERMOMETERS.	Highestin	shown by	tering Thermo-	meter with blackened bulb in vacuo, placed on the Grass.	9.99	48.0 52.7 50.0	44.8	48.8	10	SKY AND	fell early in the morning : very foggy about 10h. A.M. le amounts of cloud from about moon were prevalent, till then overcest.	A	early morning, and again heavily between tht. Generally cloudy and loggy.	ell between midnight and 3h. A.M., and again at midday. Aly coudy till night; then variable. A heavy gale prevailed the day.	fine in early morning, with hoar frost,	fell between nidnight and 3h. A.M.	
		Dew	Point.	Mean	daily value,	37.7	41.9 44.3 38.9	36°5 38°0 38°6	39.4	6	SC.	fell early in e amounts of then overcast.	throughout.	Thin rain fell in ear 10h. P.M. and midnight.	etween judy til	in ear a littie	tween	Generally overcast.
	READINGS OF			Moan	daily value.	39.1	45.2	40.5 40.2	41.6	00		n fell ble am ; then	Overcast to	n rain. M. and	n fell brally clo	y fine M., and	n fell b	ierally
	A			Range	in day.	9.2	5.4 8.4 11.0	10 - 10 10 - 10 10 - 10	7.3	1		Rain Variabl	Ove	Thi 10h. P	Rain Genera during	Very 9h. A.M.,	Rain 8h. A.M	Ger
		,	Dry.		Low- est.	35.6	42.3 40.4 36.5	35.5	37.8	9					out of			
					High-	43.2	47.7	44.0 42.8 41.7	45.1	lus	ITY.	,			rratus c		_	01
	BARO-	Mean	reading	rected and re-	duced to 32 degr. Fahren-	in. 30·155	29.863 29.742	29.702 29.730 29.976	29.805	4	BLECTRICITY				rical appe			
	Moon.		DLares	rnases	ė	:	FirstQr.		1:	80	EL				The electrical apparatus out of action.			
					DAY.	.B.	18 19 20	23 23 23 23 23 23 23 23 23 23 23 23 23 2		suui	-	1 1	18	19			223	81
			1871	101	Month and Day.	DECEMBER.	Monday Tuesday Weunesday	THURSDAY. FRIDAY. SATURDAY.	MEANS .	No. of Columns	DATE.	DECEMBER.	Monday .	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAY .	SATURDAY .
	-		-		-	100	7.11	一年少		1 54	11	90	-	H	E	P4	H	7/2

# WEEKLY RETURN

### BIRTHS AND DEATHS IN LONDO AND IN NINETEEN OTHER LARCE TOWNS OF THE UNITED KINCDOM.

By Anthocity of the Registrar General.

PUBLISHED BY EYRE AND SPOTTISWOODE, 9, EAST HARDING ST., FETTER LANE, E.C.

No. 52. 1871. Vol. XXXII.] WEEK ENDING SATURDAY, DECEMBER 30. [Price 1\frac{1}{2}d.

General Register Office, Somerset House, 1st January 1872.

DURING the week ending Saturday the 30th ultimo, 4906 births and 4125 deaths were registered in LONDON and NINETEEN other LARGE CITIES and TOWNS of the UNITED KINGDOM. The aggregate mortality last week in these towns was at the

rate of 30 deaths annually to every 1000 persons estimated to be living.

The annual rates of mortality in the Seventeen English Cities and Towns were as follow:—London 27 per 1000; Portsmouth 25, Norwich 39, Bristol 29, Wolverhampton 68, Birmingham 28, Leicester 33, Nottingham 36, Liverpool 33, Manchester 33, Salford 27, Bradford 33, Leeds 26, Sheffield 34, Hull 26, Sunderland 41, and Newcastle-upon-Tyne 34. The fatal cases of small-pox in these seventeen towns, which in the two previous weeks had been 289 and 284, were 288 last week; of these, 97 occurred in London, 52 in Sheffield, 35 in Wolverhampton, 20 each in Nottingham and Norwich, 12 in Newcastle-upon-Tyne, 10 each in Birmingham and Sunderland, 5 each in Bristol, Hull, and Salford, and 4 in Manchester. The numbers showed a decline in Nottingham, Norwich, and Sheffield, while they had increased in Birmingham and Portsmouth. The annual death-rate from this disease last week was equal to 27 per 1000 in Wolverhampton, 13 in Norwich, 12 in Nottingham, 11 in Sheffield, 5 each in Sunderland and Newcastle, 3 in Portsmouth, 2 each in Hull and Salford, and to more than one per 1000 in London, Birmingham, Bristol, and Leicester.

Sheffield has in recent years suffered from the fatal prevalence of small-pox to a remarkable extent. During the ten years 1861-70 in the two registration districts of Sheffield and Ecclesall Bierlow, containing the whole of the borough of Sheffield besides a certain extra-municipal area, 1252 deaths were referred to this disease, of which 365 occurred in 1863, and 406 in 1868. During the thirteen weeks of the quarter ending last Saturday, no less than 360 fatal cases were returned within the borough, showing that the present epidemic is by far more severe than those occurring in the ten years above mentioned. The returns bear evidence that

vaccination is still greatly neglected within the borough.

In Dublin the annual rate of mortality from all causes last week was equal to 30 per 1000 persons living; 25 deaths were referred to small-pox, against 26 in

each of the two preceding weeks.

In Paris 832 deaths were returned in the week ending last Friday, and the annual death-rate was equal to 24 per 1000 of the estimated population. In Brussels 101 deaths occurred in the week ending the 23d ultimo, and the annual death-rate was 28 per 1000. In Vienna the 362 deaths in the week ending the 23d gave an annual rate of 30 per 1000. In Rome 239 deaths were registered in the week ending the 17th ultimo, and the annual death-rate was 55 per 1000; this excessive rate of mortality was due to the fatal prevalence of small-pox and fever, to which 41 and 24 deaths were respectively referred in the week.

In the City of New York 436 deaths were registered in the week ending

9th December, and the equivalent annual rate of mortality was 24 per 1000.

In Bombay the deaths registered during the week ending the 5th ultimo wera-280, and the mortality was at the annual rate of 18 per 1000. In Madras the 239 deaths in the week ending the 17th November showed an annual death-rate.

equal to 29 per 1000 of the population.

In London 1891 births and 1686 deaths were registered last week. After making due allowance for increase of population, the births were 79 below, while the deaths exceeded by 43, the average numbers in the corresponding week of the last ten years. The births registered were 273 below the number returned in the previous week, doubtless owing to the Christmas holidays falling in the week.

[52.]

The annual death-rate in London, which in the two previous weeks had been 34 and 31 per 1000, further declined last week to 27. The rate was equal to 23 in the West, 31 in the North, 26 in the Central, 28 in the East, and 26 in the South Districts.

The 1686 deaths in London included 97 from small-pox, 75 from measles, 34 from scarlet fever, 2 from diphtheria, 79 from whooping-cough, 45 from different forms of fever (of which 4 were certified as typhus, 33 as enteric or typhoid, and 8 as simple continued fever), and 9 from diarrhea; thus to the seven principal diseases of the zymotic class 341 deaths were referred, against 403 in each of the two preceding weeks. The fatal cases of measles and whooping-cough showed a considerable decline, while those of small-pox and scarlatina were slightly more numerous. The deaths from measles were most numerous in Islington, Poplar, and Bermondsey; whooping-cough showed a fatal prevalence in Islington, Hoxton Old Town, Lambeth, and Camberwell; and 3 deaths were referred to enteric fever in Walworth. The 45 deaths from fever were 16 below the corrected average number in the corresponding week of the ten years 1861-70.

The deaths from small-pox in London, which in the three previous weeks had been 104, 106, and 90, were last week 97, showing an excess of 71 upon the corrected average number. In the four small-pox hospitals at Hampstead, Islington, Homerton, and Stockwell, 41 fatal cases were recorded, against 46 and 35 in the two preceding weeks. Six were returned last week in Kentish Town, 5 in Poplar, and 4 each in Kennington Second, and St. George (Camberwell) sub-districts.

The mean temperature at Greenwich averaged 43°°0, and was 5°°6 above the average, showing a considerable excess on each day of the week. Under the influence of the mild weather in the two past weeks the fatal cases of bronchitis and phthisis, which had been 482 and 224 in the week ending 16th December, declined to 302 and 164 last week. The deaths, however, referred to diseases of the respiratory organs, including phthisis, again showed a considerable excess upon the corrected average number in the corresponding week of the last ten years. The effect of the recent cold weather upon the mortality from these diseases is thus still evident in the returns.

To different forms of violence 60 deaths were referred; of these, 50 were the result of accident or negligence, including 19 from fractures and contusions, 7 from burns and scalds, 3 from drowning, and no less than 20 of infants from suffocation. Of the deaths from fractures and contusions, 6 were caused by horses or vehicles in the streets, raising the number of fatal street accidents in London during 1871 to 208, against 192 and 198 in 1869 and 1870 respectively.

Allowing for the increase in the population that has been exposed to risk, the number in the past year shows an increase. Some decisive steps must be taken

to put a stop to this open slaughter of people in the streets of London.

The number of deaths from all forms of violence returned last week was unduly raised by the registration of no less than 51 inquest cases in the East Districts of London, of which 21 referred to deaths which occurred during November, or before the 18th of December.

Dr. E. Frankland, F.R.S., in his report upon the quality of the waters supplied to the Metropolis during December, is again able to state that all the samples were clear when drawn from the companies' mains. The Thames and Lea waters, supplied by the Chelsea, West Middlesex, Southwark, Grand Junction, Lambeth, and East London Companies, were of "much better quality than is usual at this season of the year;" but as regards organic impurity, compare very unfavourably with those supplied by the Kent and New River Companies, which are principally drawn from deep chalk wells and springs. Taking 1 to represent the amount of organic impurity contained in a given quantity of Kent Company's water supplied in December, the proportional amount in an equal quantity of water supplied by the other Metropolitan Companies was:-New River 2, Chelsea and Lambeth 5.2, Grand Junction 5:3, Southwark 5:5, East London 6, and West Middlesex 7:4. Dr. Alfred Hill reports of the Birmingham water that it exhibited during December a great improvement, being less turbid and containing very much less organic nitrogen than in the previous month.

At the Royal Observatory, Greenwich, the mean reading of the barometer was 29.60 in.; the highest reading was 30.02 in. at the beginning of the week, and the lowest 29.23 in. on Thursday evening. The mean temperature of the air was 43°0, or 5°6 above the mean temperature of the corresponding week in the 50 years 1814-63, as determined by Mr. Glaisher from the thermometrical

observations taken at the Royal Observatory. The mean temperature was considerably above the average on each day of the week; on Thursday the mean was 45°.9, and no less than 8°.7 above the average. The highest day temperature in the shade was 48°.4 on Thursday, the lowest night temperature 36°.0 on Friday; the entire range of temperature in the week was, therefore, 12°.4. The highest temperature in the sun, as shown by a self-registering thermometer with a blackened bulb in vacuo, placed on the grass, was 68°.3 on Wednesday. The difference between the mean dew-point temperature and air temperature averaged 3°.0. The mean temperature of the water in the Thames, derived from daily observations taken by permission of the Commissioner of the Metropolitan Police at the "Scorpion" Police Ship, was 39°.9. The mean degree of humidity of the air was 89, complete saturation being represented by 100. The general direction of the wind was S.W., and the horizontal movement of the air in the week averaged 15 miles per hour. Rain fell during the week, to the amount of 56 of an inch, of which 39 was measured during Tuesday.

The mean temperature of the week in the other large English towns furnishing returns ranged from 40° 4 in Norwich, to 43° 4 in Leeds; the lowest recorded night temperature was 31° 0 in Manchester, and the highest day temperature in the shade 52° 1 in Liverpool. Rain was measured last week in each of these towns; the amounts varied from 17 of an inch in both Norwich and Leeds, to

·95 in Manchester.

In Centigrade degrees the mean temperature of the air at Greenwich was 6°·1, or 3°·1 above the mean temperature of the corresponding week in 50 years. The highest day temperature in the shade was 9°·1, the lowest night temperature 2°·2, and the highest temperature in the sun was 20°·2. The wind blew at the rate of 24 kilometres an hour, and the rain-fall measured 1·42 centimetres.

According to returns furnished by the Metropolitan Board of Works, the daily average quantity of sewage pumped into the River Thames at Crossness was 221,899 cubic metres, and at Barking 273,167 cubic metres, equivalent to about as many tons by weight.

Note.—A cubic metre is equal in volume to about 35 cubic feet or to 220 imperial gallons.

The REGISTEAR GENERAL has to acknowledge the courtesy of the London Water Companies, who have furnished him with the average daily quantity of Water supplied for the month of November 1871: thus, according to their account, 103,055,193 gallons or 468,227 cubic metres of water (equal to about as many tuns by measure, tons by weight) were supplied daily; or 209.6 gallons (95.2 decalitres), rather more than a ton by weight, to each house, and 29.5 gallons (13.4 decalitres) to each person

(13.4 decalitres) to each person.

According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that on an average, during the year 1866, about 82 per cent. of the total average daily supply of water for all purposes was for domestic use: applying this proportion to the total quantity supplied daily in the month of November 1871, it may be estimated that about 84,505.258 gallons were probably used for domestic purposes, or about 24.2 gallons per day for each inhabitant. This proportion no doubt varies from month to month, but the Registrar General has no means of giving a more exact estimate.

COMPANIES			Houses, &c.	in Gallons (in Manufactures purposes other	upply of Water cluding that for and for variouser than for do- mption) during
		November 1870.	NOVEMBER 1871.	NOVEMBER 1870.	NOVEMBER 1871.
TOTAL SUPPLY	•	482,850	491,719	101,063,124	103,055,193
From Thames	:	222,924 259,926	228,833 262,886	52,650,070 48,413,054	53,794,252 49,260,941
THAMES. Chelsea West Middlesex Southwark and Vauxhall Grand Junction Lambeth		27,640 41,458 77,272 30,929 45,625	27,949 42,765 78,653 32,3 6 47,145	7,617,900 8,307,244 16,501,270 10,722,085 9,501,571	7,759,700 9,014,374 16,429,575 10,859,703 9,730,900
LEA AND OTHER SOURCES.  New River East London	•	118,330 101,817 39.779	119.666 102,624 40,596	22,418,000 19.174,000 6,821,054	23,153,000 19,727,600 6,380,841

Note.—The Return for November 1971, compared with that for the corresponding month of 1870, shows an increase of 8,869 houses and of 1,002,050 gallons of water supplied daily.

## ANALYSIS OF METROPOLITAN WATER SUPPLY FOR DECEMBER.

Royal College of Chemistry, 28th December 1871. SIR, I have the honour to submit to you in the following table the results of the chemical examination of the waters supplied to the Metropolis during the month of December, and I append also the results yielded by the Birmingham water supply furnished by Dr. Hill.

All the Metropolitan waters were clear when drawn from the companies' mains.

The water from the Thames and Lea, supplied by the Chelsea, West Middlesex, Southwark, Grand Junction, Lambeth, and East London Companies, was of much better quality than is usual at this season of the year; but in respect of that most objectionable impurity—organic matter—it was still greatly inferior to the water supplied by the Kent Company from deep wells in the chalk, and to that furnished by the New River Company, chiefly from deep wells and springs in the chalk. If we call the amount of organic impurity in a given volume of the Kent Company's water 1, the proportional amount in an equal volume of water supplied by the other Metropolitan Companies was: -New River 2, Chelsea and Lambeth 5.2, Grand Junction 5.3, Southwark 5.5, East London 6, and West Middlesex 7.4. This comparison also shows that the effects of the October floods upon the Thames had not, on the 7th of December when the sample was taken for analysis, been entirely eliminated from the comparatively large storage reservoirs of the West Middlesex Company.

Dr. Hill reports that the water supplied to Birmingham exhibited a great improvement, being less turbid and containing very much less organic nitrogen than usual. The "previous sewage contamination" was also low.

The Registrar General, &c., &c.

I am, &c., E. FRANKLAND.

RESULTS OF ANALYSIS EXPRESSED IN PARTS PER 100,000.

COMPANIES.	Date and Place of Collection.	Temperature in centigrade degrees.	Total Solid Impuritty.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total combined Nitrogen.	Previous Sewage or Animal Contamina- tion. (Estimated.)	Chlorine.	Total Hardness.
THAMES. Chelsen	{ Cab Rank, Horse Guards }	4.2	29.96	*092	.027	•000	*259	•286	. 2270	1.85	24.80
West Middlesex -	{ 7th December, Cab Rank, Portland-road }	4.3	29.80	•142	.028	*000	257	•285	2250	1.80	24.80
Southwark and Vauxhall	{ 7th December, Cab Rank, St. George's Church, Borough.	3*8	30°50	•104	•023	*000	*259	282	2270	1.90	24.80
Grand Junction -	{ Sth December, Royal College of Chemistry. }	2-9	30.30	•101	•020	•000	*259	•279	2270	1.70	24.80
Lambeth	{ 7th December, Cab Rank, Lambeth-road }	3.7	30*00	•093	*026	.000	•278	*304	2460	1.85	24*20
OTHER SOURCES. New River	7th December, Cab Rank, Tottenham- court-road.	4.2	28.36	•033	•014	•000	*261	*278	2320	1.65	23.60
East London -	{ Royal Hotel. Mile-end-road.	3.0	32.02	•104	.034	•000	.180	•214	1480	2.12	25-70
Kent	{ Sth December, Deptid. Bdge. Police Stat.}	12.0	40:52	•015	.008	.000	•479	•487	4470	2°50	30.30
Birmingham* -	December, Birmingham Waterworks	-	22.10	.163	.023	.000	•172	•195	1405	1.72	15°4
Column 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.

<sup>\*</sup> Analysed by Dr. Alfred Hill, of Queen's College, Birmingh

The numbers in columns 4, 5, 6, 7, 8, 9, 10, 11, and 12 all relate to 100,000 parts of the waters. The Table is to be read thus: the Chelsea Company's water collected on the 7th December at the Horse Guards' cab rank had a temperature of 4° · 2 C.; 100,000 lbs. of it contained 29 · 96 lbs. of solid impurity; the organic matter, constituting a portion of this impurity, contained 1092 lb. of carbon and 1027 lb. of nitrogen. The above quantity of water contained no ammonia, and 1259 lb. of nitrogen in the form of nitrates and nitrites, whilst the total amount of combined nitrogen in every form was 286 lb. After its descent to the earth as rain, 100,000 lbs. of the water had been contaminated with animal matter equivalent to that contained in 2,270 lbs. of average London sewage. By gradual oxidation, this animal contamination had been, so far as analysis can show, converted into innocuous inorganic compounds before the water was submitted to investigation. The above weight of water also contained 1.85 ibs. of chlorine. Finally, 100,000 lbs. of the water contained 24.8 lbs. of carbonate of lime, or an equivalent quantity of other hardening or soap-destroying ingredients.

The numbers in the analytical Table can be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left. The same operation

transforms the hardness in the Table into degrees of hardness on Clark's scale.

Table 1. LONDON.—Births and Deaths Registered LAST WEEK, and in the FIFTY-SECOND Wee's of Ten previous Years.

Total Births Males Females .	1861 1523 780 743	1862 1610 829 781	1863 1532 805 727	1864 1956 1000 956	1865 ————————————————————————————————————	1866 1900 990 910	1867 1701 887 814	1868 1664 808 856	1869 2309 1205 1104	2041 1076 965	Weekly Average in 10 Years. 1791 · 0 924 · 9 866 · 1	1871 1891 993 898
TOTAL <b>Deaths</b> Males Females .	1148	1292	1312	1697	1603	1436	1433	1262	1996	1760	1493·9	1686
	556	657	649	846	773	753	724	. 619	1028	894	749·9	823
	592	635	663	851	830	683	709	643	968	866	744·0	863

Note.—The births and deaths registered last week may be compared with the average numbers in the corresponding weeks of the ten years 1861-70 after raising the average by a tenth part for increase of population.

TABLE 2. LONDON .- COMPARATIVE TABLE OF RESULTS in the Last THIRTEEN WEEKS.

	Oct.	Oct. 14.	Oct. 21.	Oct. 28.	Nov.	Nov. 11.	Nov. 18.	Nov. 25.	Dec. 2.	Dec. 9.	Dec. 16.	Dec. 23.	Dec. 30.
TOTAL Deaths	1283	1275	1291	1364	1400	1365	1626	1863	1918	1856	2121	1943	1,686
Deaths under 5 years of age - Deaths 5—20	539 121	497 103	492 100	527 115	552 129	571 106	688 119	742 118	813 121	809 126	865 133	813 119	701 122
Deaths 20—40 Deaths 40—60 Deaths 60—80 Deaths at 80 years & upwards	178 212 183 48	202 203 221 49	197 206 238 58	213 230 236 43	201 224 230 64	206 209 221 52	222 239 296 62	250 342 338 73	233 315 359 77	247 284 322 63	272 352 409 90	254 319 361 77	224 281 292 66
Deaths from Small-pox Measles , Scarlet Fever - , Diphtheria - , , , Whooping cough	72 25 38 5 36	61 34 29 9 27	53 34 40 6 23	61 36 31 6 40	61 45 38 4 51	54 42 32 5 42	76 49 40 6 36	67 60 34 4 64	78 83 39 10 72	104 81 34 10 85	106 97 37 7 99	90 102 28 3 117	97 75 34 2 79
", Typhus fever ", Enteric (or Ty-) " phoid) fever - } ", SimpleContafever ", Diarrha a	21 7 80	6 24 12 69	11 15 9 46	23 10 32	36 7 19	6 32 7 21	5 27 7 17	27 13 7	12 19 8 16	35 10 14	9 23 10 15	6 32 12 13	33 8 9
" Simple Cholera - " Phthisis - " Bronchitis - " Pneumonia - " Heart Disease -	1 143 84 56 60	140 113 62 73	1 147 120 80 58	1 157 179 84 74	166 190 81 71	162 180 105 61	160 287 115 85	219 380 162 88	168 457 132 103	179 257 155 77	224 482 139 93	182 364 117 99	164 302 101 77
Mean Temperature of the Air	51.9	45.5	53.5	46.9	47.3	39.2	35.3	34.3	36.4	29.8	39.9	41 6	43.0
Mean Temperature of the Water of the Thames	53.7	52.7	51.5	51.6	49.8	46.6	42.1	38.5	38.0	36.0	34.3	37.7	39.9
Humidity of the Air	.80	_80	.91	.90	81	84	84	86	89	81	90	92	89
Rain-fall in inches	0.77	0.00	0.22	0.01	0.04	0.03	0.29	0.10	0.12	0.04	0.10	0.21	0.56
				Contract of the last of the la				THE RESERVE OF THE PERSON NAMED IN	STREET, SQUARE, SQUARE,			-	and the latest designation in the latest des

#### METEOROLOGICAL OBSERVATIONS. (See TABLE 3.)

The Return for Edinburgh and Glasgow is kindly furnished by the Registrar General of Scotland, the meteorological observations being supplied respectively by A. K. Johnston, Esq., of Edinburgh, and Professor Grant of Glasgow Observatory; that for Dublin by the Registrar General of Ireland.

The following gentlemen have kindly placed their meteorological observations at the disposal of the Registrar General, and the results have been compiled by J. Glaisher, Esq., F.R.S.:—W. C. Ellis, Esq., F.M.S., Portsmouth; C. M. Gibson, Esq., F.M.S., Norwich; J. Thrustans, Esq., F.M.S., Wolverhampon; D. Smith, Esq., F.R.A.S., F.M.S., Birmingham; H. Billson, Esq., F.M.S., Leicester; M. O. Tarbotton, Esq., F.G.S., F.M.S., Nottingham; J. Hartnup. Esq., F.R.A.S., Liverpool; T. Mackereth, Esq., F.R.A.S., F.M.S., Eccles, near Manchester; G. V. Vernon, Esq., F.R.A.S., F.M.S., Old Trafford, Manchester; D. Doncaster, Esq., jun., F.M.S., Sheffield; J. McLandsborough, Esq., F.G.S., F.M.S., Bradford; Ed. Filliter, Esq., F.G.S., F.M.S., Leeds; Mr. E. Peak, Hull; and Wm, Lyall, Esq., Newcastle-on-Tyne.

TABLE 3 .- BIRTHS and DEATHS registered, and METEOROLOGY, during the Week ending Saturday, the 30th day of December 1871, in the following large Towns.

CITIES	Area	Population estimated	Persons	BIRTHS registered during the	DEATHS registered during the	TEMPERA (FA	TURE OF	т.)	TEMPERA- TURE OF THE AIR. (CENTI- GRADE.)	RAIN	FALL.
BOROUGHS.  (Municipal Boundaries for all except LONDON.)	in Acres.	to the middle of the Year 1871.*	to an Acre. (1871.)	Week ending 30th Dec. 1871.	Week ending 30th Dec. 1871.	Highest during the Week.	Lowest during the Week.	Weekly Mean of the Daily Mean Values.	Weekly Mean of the Daily Mean Values.	In Inches.	In Centi- metres.
Total of 20 Towns in the United Kingdom -	213,281	7,204,001	33.8	4906†	4125†	53.0	30.2	42.2	5.67	0.28	1.47
LONDON	77,997	3,263,872	41.8	1891	1686	48.4	36.0	43.0	6.11	0.26	1.42
PORTSMOUTH	9,513	113,450	11.9	60	55	50.2	33.8	42.1	5.62	0.63	1.60
Norwich	7,472	80,533	10.8	38	60	48.0	31.8	40.4	4.66	0.17	0.43
BRISTOL	4,688	183,298	39.1	122	103						
WOLVERHAMPTON -	3,387	68,476	20.2	60	89	48.7	35.2	42°2	5.67	0.81	2.06
BIRMINGHAM	7,831	344,980	44.1	287	183	50°3	37.0	42.8	6.00	0.93	2.36
LEICESTER	3,200	95,882	30.0	83	60	49.0	33.0	41.2	5'11	0.23	1.32
NOTTINGHAM	1,996	86,929	43.6	67	60	49.3	34.6	41.4	5.23	0.22	1.40
LIVERPOOL	5,108	494,649	96.8	342	309	52.1	32.7	42.4	5.48	0.85	2.08
MANCHESTER	4,486	356,099	79.4	254	227	49.0	31.0	41.8	5'44	0.95	2.41
SALFORD	5,172	125,422	24.3	78	65	49.4	31.8	41.8	5.44	0.80	2.03
BRADFORD	6,590	146,987	22.3	100	92	50.0	32.3	42.7	5.95	0.31	0.79
LEEDS	21,572	260,657	12.1	299	129	50.0	32.0	43.4	6.33	0.17	0.43
SHEFFIELD	22,830	241,507	10.6	225	157	50.0	33.2	42.9	6.06	0.28	1.47
HULL	3,562	122,266	34.3	85	60	49.0	33.0	40.6	4.77	0.33	0.84
SUNDERLAND	3,306	98,797	29.9	91	77	-	-		-		-
NEWCASTLE-ON-TYNE	5,336	128,677	24.1	121	83	50.0	38.0	43'1	6.17	0.43	1.09
EDINBURGH	4,427	201,728	45.6	128†	132†		-			-	
GLASGOW	5,063	479,227	94.7	<b>3</b> 49†	820†		direct;		-		
DUBLIN	9,745	310,565	31.9	226	178	53.0	30.2	42.6	5.89	0.64	1.63

<sup>\*</sup> The figures in this column are the unrevised numbers enumerated in April last, raised to the middle of the year by adding 1-40th of the rate of increase which prevailed between 1861 and 1871; as the population of Dublin and its suburbs showed a decline between the Censuses of 1861 and 1871, the enumerated number in April last has been inserted for that city, the population being assumed to be now stationary.

† No returns having been received from Edinburgh or Glasgow, averages of the numbers of births and deaths returned in those cities in recent weeks have been inserted, in order to make up totals for the 20 towns of the United Kingdom.

TABLE 4 .- DEATHS and RATE OF MORTALITY in 17 large English Towns, and in Dublin, during the Week ending Saturday the 30th day of December 1871.

	ANNUAL				Th	e DEAT	Hs regi	stered i	in the I	Week in	clude			
BOROUGHS, &c.  (Municipal Boundaries for all except LONDON.)	RATE of MOR- TALITY per 1000 living.	DEATHS from ALL CAUSES.	Under 1 Year of Age.	60 Years of Age and up- wards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Institutions.
Total of 17 Towns	- 29	3495	779	696	288	104	76	10	170	127	23	124	245	452
LONDON	- 27	1686	358	358	97	75	34	2	79	45	9	60	134	265
PORTSMOUTH	- 25	55	11	12	6	3	1	-	2	2	-	1	1	8
NORWICH	- 39	60	3	14	20	-	-	-	-	4	-		2	3
BRISTOL	~ 29	103	29	23	. 5	1	2	1	4	1	-	ŏ	8	12
WOLVERHAMPTON	- 68	89	22	10	35	. 1	1	- 04	3	~	-	-	1	2
BIRMINGHAM .	- 28	183	51	36	10	-	2	1	14	3	2	7	14	17
LEICESTER	- 33	60	21	17	2	1	1	-	-	3		-	1	6
NOTTINGHAM .	- 36	60	6	7	20	-	-	-	-	4	1	1	-11	12
LIVERPOOL	- 33	309	71	74	2	3	9	5	10	24	2	15	25	44
MANCHESTER -	- 33	227	50	41	4	-	8		24	10.	3	7	17	34
SALFORD	27	65	28	6	5	-	1	-	7	3	1	2	2	3 .
BRADFORB	- 33	92	26	12	1	1	-	-	5	2	-	13	20	11
1	- 26	129	32	23	2	7	1	-	8	7	2	3	3	4
LEEDS	- 34	157	32	18	52	1	5		1	5	1	2	4	11
SHEFFIELD	26	60	13	12	5	2	3	tien .	-	8		2	2	8
HULL	- 41	77	9	16	10	8	5	-	_	10	1	3	6	: 18
NEWCASTLE-ON-TYNE	-	83	17	17	12	1	3	1	3	1	1	3	4	9
NEWCASILE-UN-LINE	- 01		-							-				-
DUBLIN	- 80	178	38	43	25	-	3	1	- 2	4	-	2	8	37

TABLE 5 .- DEATHS in LONDON Registered in the FIFTY-SECOND Week of the Year 1871.

TABLE 3.—I	LAINS	111 12	ONL	MON	116	gisi	erec	1 111	the FIFTY-SECOND WES	K OI U	ue i e	car	101	1.	14.	11/11	_
The second	eek 61-70.	Sati	In thurday		Veek ecem			1.		f the Week 1861-70.	Satu				endin er 30		1.
	s of the		Deat	hs o	f Per	sons	of			s of tand Wars 18	757	Deat	ths o	f Per Age	sons	of	CHARLES
CAUSES OF DEATH.	Averages of the Fifty-second Week the 10 years 1861-70	ALL	Un		. 40.	.60.	.80.	and	CAUSES OF DEATH.	erage 7-secc 10 year	ALL	Un		40.	. 60.	.80.	and
	Ave Fifty in the	Mean	20	).	under 40	40 and under 60	60 and under	ards.		Averages of t Fifty-second W in the 10 years 18	AGES.	20		under	under 60	nuq	ars a
Mean Temperature -	38.3	Tem.	0-5.	5-20.	20 and	o and	0 and	80 Years upwards	Non Commenture	38.3	Tem.	0-5.	5-20.	20 and	40 and	60 and	80 Years upwards.
		-			-	3	-	-	Mean Temperature -	1.0	- COLON	0	10		4	9	3
ALL CAUSES	1493.9	1686 1682	701 693		224	16	292		9. Stricture of Intestines - 10. Fistula 11. Stomach Disease, &c	1.0	1 12	- 4		1 2	2	3	1
I. ZYMOTIC DISEASES.									12. Pancreas Disease, &c 13. Hepatitis 14. Jaundice	2.7	6 5	2 2	1	1	3 1	1 2 4	111
ORDER 1.  1. Small-pox	24°0 39°2	97 75	23 68	27 6	31	6	11	-	15. Liver Disease, &c 16. Spleen Disease, &c	15.5	15	2 -	-	1	8 -	4	-
3. Scarlet Fever (Scarlatina) 4. Diphtheria 5. Quinsy	73.0	34 2 1	21	13	ī	-	-	10	ORDER 5.  1. Nephritis	1:2	2	-	-	1	1	-	-
6. Croup 7. Whooping-cough	1.9 18.4 51.0	9 79	1 8 73	1 6			111	-	3. Bright's Disease (Nephria) 4. Diabetes	10.0	12	-		2 1 1	5	4	1 -
8. Typhus  — Enteric or Typhoid Fever  — Simple continued Fever	55.7	83 8	9 3	94	8 -	4 1 3	3 -		5. Calculus (Stone) 6. Cystitis 7. Kidney Disease, &c	1.6	1 3 9	1	1	3	1 4	1	1
9. Erysipelas 10. Puerperal Fever (Metria) 11. Carbuncle	9.8 4.3 .7	9.	2 -	1 1 1	6	3 -	2 -	-	ORDER 6. 1. Ovarian Dropsy	.6	1 4	-	-	-	1	-	-
12. Influenza – – – – – – – – – – – – – – – – – – –	1.4 1.6 11.7	2 2 9	1 - 6	=======================================	ī	1	1 2	1	2. Uterus Disease, &c ORDER 7.	2.6	4	_	-	-	2	2	-
15. Simple Cholera	*3 *5 *8	111	-	1 1 1		111	1.1.1	1 1 1	1. Synovitis (Arthritis) - 2. Joint Disease, &c	3.5	9	2	2	2	2	ī	-
18. Rheumatism 19. Other Zymotic Diseases -	7:9	6 -	ī -	2	-	3 -	-	1 1	ORDER 8.  1. Phlegmon	2.3	1	1 1		-	1	-	-
ORDER 2. 1. Syphilis 2. Stricture of Urethra -	7:3	8	8	=	-				3. Skin Disease, &c IV. DEVELOPMENTAL	1.3	4	3		-	1	-	-
3. Hydrophobia	-1	-	=	-	-	-	-	-	DISEASES. ORDER 1.								The same of
1. Privation 2. Want of Breast-milk -	7.7 1.3	7	11-	11	-	-		Ŀ	1. Premature Birth 2. Cyanosis	22.2	22	22	-	-	-	-	-
3. Purpura and Scurvy 4. Alco- a Del. Tremens holism b Intemperance	1:3	7 4 3 4	1	1.1.1	3 1	2 4		-	3. Spina Bifida 4. Other Malformations	1.4 1.9 14.2	1 4 8	1 4 8	111	1 1 1	1 1 1	111	1 1 1
ORDER 4.	2.4	1 2	1	-	-	_	-	-	ORDER 2.	-6	1		1	-		-	
2. Worms, &c I. CONSTITUTIONAL DIS.	-2	2	1	-	1				2. Childbirth (see Puerperal) Fever)	6.0	6	-	-	6	-	-	-
ORDER 1. 1. Gout	2.2	1 13	-		10	ī	1	-1	ORDER 3. 1. Old Age	60.0	49	-	1-	-	-	15	34
3. Cancer 4. Cancrum Oris (Noma) -	13.6 24.4 .7	25	2 -	1 1 -	3	14	7		ORDER 4.  1. Atrophy and Debility -	61.7	48	35	3	-	1	9	-
5. Mortification ORDER 2. 1. Scrofula	9.4	2	- 6	3	1	1	2		V. VIOLENT DEATHS, &c. ORDER 1.								
2. Tabes Mesenterica 3. Phthisis	14.1	22 164	22 10	16	80	51	7	-	(ACCIDENT OF NEGLIGENCE.) 1. Fractures and Contusions	15.2	19	1	2	5	7	-	
4. Hydrocephalus III. LOCAL DISEASES.	25.1	24	24	-	-		-		2. Wounds	8·7 1·2	7	4	-	-	1	4 2	1 1
ORDER 1. 1. Cephalitis 2. Apoplexy	11.6	10	7 5	1 2	- 9	18	2 14	2	4. Poison	4'0 14'0	3 20	20	1	1	1		1 1 1
3. Paralysis	37 3 31 5 2 8	44 34 3		- 1	3 2 -	5 2	23	4	7. Otherwise ORDER 3.	2.4	1		1	-	-	-	-
6. Epilepsy 7. Convulsions	7:1 48:6	7 48 19	47	1	3	3	1	111	(HOMICIDE.)  1. Murder and Manslaughter	2.4	3	3	-	-	-	-	-
8. Brain Disease, &c ORDER 2. 1. Pericarditis	2.3	7	4	1	-	5	10		ORDER 4. (SUICIDE.)					-			
2. Aneurism 3. Heart Disease, &c	2.2 69.1	77	2	1	11	26	35	2	1. Wounds {Gunshot - Cut, Stab -	.2	1		-	-		-	-
ORDER 3. 1. Laryngitis	9.4	8 302	4 125	7	2 9	2 47	99	15	3. Drowning	.8 .3 1.4	1 8			1 2		- 1	1111
3. Pleurisy	4°4 92°4 16°6	5 101 25	3 69	2 -	9 2	15 10	6.	2	5. Otherwise ORDER 5.	-4	-		-	-	-	-	-
6. Lung Disease, &c ORDER 4.	18.2	14	9	-	<u>ī</u>	1	3	-	(EXECUTION.) 1. Hanging		-	-	-	-	-	-	-
1. Gastritis	1°2 4°8 4°5	1 2 5	111	1	- 2	- 1	1 1 1		Violent Deaths (not classed)	• • 5	2	-	1	1	-	-	-
4. Ascites – – – – 5. Ulceration of Intestines – 6. Hernia – – –	3.5 1.8 4.1	5 8 4 5	1	2	2	1 5	1 -	111	Sudden Deaths (Cause un-	3.5	-	1		-	-	-	
7. Ileus – – – – 8. Intussusception – –	2.6	5 8	E	1 -	2	8 -	ī	1 -	Causes not specified or ill-	14.6	4	3	-	-	-	1	-
NoteWhere a person is	" found	drowne	d" t	he c	oron	ers,	as in	som	e other cases, do not always such	coed in di	scoveri	ng wl	hethe	er th	e case	e is	

NOTE.—Where a person is "found drowned" the coroners, as in some other cases, do not always succeed in discovering whether the case is suicide, a murder, or an accident. All such cases are classed under "accident or negligence."

442 Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes.

Table 6. LONDON.—Population, Births, Deaths from all Causes, and from Small-Pox, Measles, Scarlet during the Week ending

	1	l bo	bo		1 3		The	Deam	75 70	iatoro	d in A		ring	-	11 00.	L CH	ing
Party Party 1919	Enume-	during	during	-		-	THE I	DEATI	is reg		u in t	he We	ek in	l			
REGISTRARS' SUB-DISTRICTS.	rated Popu- lation, 1871.	Total BIRTHS dithe Week.	Total DEATHS d	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough	Typhus.	Enteric (or Typhoid) Fever	Simple con-	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.†
LONDON	3,251,804	1891	1686	358	358	97	75	34	2	79	4	33	8	9	60	134	265
WEST DISTRICTS NORTH DISTRICTS CENTRAL DISTRICTS SOUTH DISTRICTS	561,189 751,668 333,887 638,928 966,132	291 428 156 406 610	251 449 163 346 477	47 98 35 76 102	61 95 29 74 99	3 49 3 22 20	5 30 7 15 18	2 4 3 13 12	2	4 29 6 13 27	1 - 3	4 11 2 6 10	2 3 - 1 2	- 2 1 2 4	6 13 6 23 12	10 37 15 51 21	33 80 30 53 69
WEST DISTRICTS.  St. Mary Paddington WH	91583 28651	35 16 53 16 16 12 1 14 13 12 8 2 27 25 18 1 2 3 6	20 15 40 4 5 18 18 18 18 21 11 9 3 28 20 13 27 3 6	2 12 12 2 4 -5 3 3 -4 3 -2 -2	6 2 10 2 1 7 6 4 8 2 1 1 9 8 2 1 1 - 1	1	1 - 1 - 2 1	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+1111 1111 1111 1111111	2 1	111111111111111111111111111111111111111	111111111111111111111111111111111111111	1 4 1	1 1 2 - 4 1	166-1223525
NORTH DISTRICTS.  All Souls Marylebone HH - Cavendish Square Rectory Marylebone H St. Mary Marylebone H Christchurch Marylebone St. John Marylebone	26387 21795 33892 33110 32271 38192 29360	10. 6 19 26 25 21 8 22 20 15 19 13 32 65 48 5 7 21 25 21	27 46 66 17 14 28 26 19 18 22 9 33 77 64 4 2 2 12 36 15	8 1 1 1 8 6 2 7 5 3 6 1 6 2 1 9 2 5 4	4 - 10 22 4 3 8 8 3 5 3 1 7 8 22 1 1 2 6 8	20 -1 - 6 4 1 - 7 12 8	1  1 2 1 1 1 2 1 2 7  2 1		TOTAL PROPERTY OF THE STATE OF	3 - 1 1 1 2 3 3 9 4 1 - 1 1	THE CONTRACT OF STREET	1 1 1 - 2 2 1 - 2 - 2 - 2 - 2 - 2 - 2 -	111111111111111111111111111111111111111		4 1 - 2 1 1 1 1	6 -4 1 3 3 - 5 2 1 3 - 1 3 1	6 - 11 1 20 - 3 3 8 6 6 · 18 -
CENTRAL DISTRICTS.  St. George Bloomshury - St. Giles South WH St. Giles North	16878 13293 16220 12156 18291 13790 10732 14484 13639 7562 11184 4389 6308	4 8 10 11 3 4 4 9 6 6 6 8 10 8 11 4 3 1 7 10 	6 13 6 4 4 3 7 7 23 18 7 4 3 8 6 1 5 11 4 5 6 8 4 1 2 2 - 2	1445 111 3333 131211 11 1	5 - 1 1 2 3 1 1 1 1 2 2 1 1 1 1 2 2 - 1		2 - 1 2 1 1 1 1	2		1 2 - 1		1			1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 1 1 2 2 1 1 1	10 8 8

Note.—The letters placed against the names of the sub-districts denote public institutions in which a considerable number of deaths is likely to occur, namely,

W-Workhouse;

H.—Hospital;

L.—Lunatic Asylum;

v—A Workhouse not belonging to the district in which it is situated.

<sup>\*</sup> The Small-pox and Fever flospitals are situated in the sub-district of Islington West.

# Population, Total Births and Deaths, and Deaths from some Zymotic and other Causes. 443

EVER, DIPHTHERIA, WHOOPING-COUGH, FEVER, DIARRHŒA, VIOLENCE, &c., registered in each Sub-district aturday, 30th December 1871.

aturday, 30th December 1871.	Photogram	- 10		!			1		910		130		1		1		
		during	during				The I	EATH	s regia	stered	in th	e Wee	k incl	ude			
REGISTRARS' SUB-DISTRICTS.	Enume- rated Popu- lation, 1871.	Total BIRTHS du	Total DEATHS dur	Under 1 Year of Age.	60 Years of Age and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhea.	Violence.	Inquest Cases.	In Public Insti- tutions.
EAST DISTRICTS.  Holywell Shoreditch	12429 16545 27832 26944 24153 19257	7 9 21 21 18 19	5 10 21 24 7 10	1 5 8 1 2	22541	1 - 1	- 2 - 1 1		. 1111111	1 5	FILLIE	1	111111	111111	1112	157 -	1 00 1 00 1
Hackney-road  Freen, Bethnal Green WHLt  Church, Bethnal Green  Fown, Bethnal Green	29808 42443 26574 21375	17 22 28 21	26 15 17 10	9 1 7 3	2 7 2 2	2 3 - 1	3 -	1111	1171	1	1111	2	1111	1111	6 3 1	11 5 5	1411
Artillery Whitechapel spitalfields Hile End New Town W Whitechapel North Whitechapel Church H Loodman's Fields Lidgate	6651 15844 15550 11434 7323 10381 9149	5 7 7 3 6 6 4	2 4 6 4 12 8 8	1 1 2 1 -	1 3 3 1 2	- 1 - 1 - 2	11111111	1 1 -	TOTAL T	77-1-11	HEILL	1111111	1141111	111111	5	1 5 1	1 1 80 1 81 1
St. Mary St. George East St. Paul St. George East St. John St. George East W	17906 21356 8973	16 10 6	8 11 15	3 1 4	1 4 8	- 1	111	2 -	111	1	111	111	1	1	1 -	1 1	1 8
Shadwell W	11623 15930 30025	8 10 13	7 7 13	2 1 5	1 2 3	-	111	1	17.5	ī -	111			111	111	2 2	i
Mile End Old Town West Mile End Old Town East WwH	38126 55020 67777	32 32 36	15 23 46	6	3 4 14	3 2	2 3	3	1 1 15	1	11	ī 1	-	-	1 1	1	3
Poplar W South Districts.	48500	22	12	3	74	- 5	2	11	10	-	1	-	-	0	1.0	-	2
Christehurch Southwark W  5t. Saviour Southwark H  6ent-road  Borough-road WH  10do road L  1 inity Newington  5t. Peter Walworth W  5t. Mary Newington H	14547 15667 20430 16694 18959 23673 48232 16786	7 8 7 6 13 18 69 7	7 6 4 9 14 9 32 7	2 1 2 5 -	2 1 2 2 2 8 2	11111111	1 - 2		11111111	1 1	Chinen	1 1 1 1 1 1 1 1	1	1111121		1 24 -	1 1 1 3 2 1 5 1
st. Olave Southwark H	4157 10595 16785 15707 47921 25873	4 7 11 10 34 13	5 6 8 7 27 9	2 3 1 7 2	4 2 2 2 2 2		1 4 3	1	111111	1 3	1 1 -		111111		1 - 1 1	1 - 1 2 -	3 2 3 - 1
Waterloo-road 1st H	14086 18453 19470 35831 41284 31213 35431 12534	8 15 10 23 20 19 21 17	2 10 20 24 13 21 14 5	1 4 9 5 3 2 3	2 1 4 2 4 2		1 2	8	1	1 1	117111111	11111111		HILLIER .			1 3 6 - 6 -
Dapham HL	27348 53988 19797 9438 14479	14 31 8 7 5	8 35 5 2 1	91	3 6 1 1	2	2	1	11111	11111	111111	1	11111	11111	11111	1-1-1-1	6111
Dulwich – – – – – – – – – – – – – – – – – – –	4041 81251 42159 33851	21 21 20	1 21 23 26	6 5 6	6 2 2	1 4	1111	1 8 1	1111	3 6	11111	2	1111	1 1	-	- 1 -	4
St. Paul Deptford St. Nicholas Deptford Greenwich West Greenwich East WH Greenwich East	53696 6487 21098 19320	37 9 7 13	21 1 11 24	5 1 5 -	3 - 5 10	1	1111	11111	1.1.1.1	1111	1 -		1111	1111	2 - 1 2	2 - 1 3	16
Eltham	4528 16430 11508 19016	1 5 8 6	1 4 6		- 8 2	11111	11111	ī .	1.1.11	4111	1111	- 11	1111	1111	1111	1111	11.01
Charlton H	9503 17229 18319 13028 15290	2 7 17 10 14	5 8 3 7	1 3 3 - 2	2 - 2 - 2	111111	-	1	1.111.1	1.1 1-1 1		111111	11111	aritics.	11111	11111	2 - 2 - 2

the following are OUTLYING WORKHOUSES (indicated in the Tables by w):

St. Geo. Hanover Sq. Workh, is in Chelsea North-west sub-district.

The Strand - " Tottenham-court sub-district.
London City - " " Tottenham-court sub-district.
Do. do. - " " Hackney sub-district.

Stepney - " " Bow sub-district.

Stepney - " " Bow sub-district.

<sup>†</sup> Lunatic Asylums where paupers are admitted.

TABLE 7.-METEOROLOGICAL OBSERVATIONS taken at the ROYAL OBSERVATORY, GREENWICH, during the Week ending Saturday, 30th December, 1871.

									Meteor	otogu	iui	U	150	rvations.		-		-		L
-	221	Ties	Ser	16	Ozone	1		.32		7:13	56		1 000	chose dry dry five	daily r and sults	well d by	erva- er 31. wer,"	ering th of	r the	eased eased
	RAIN.	Collected	in a Gauge	receiving	is 5 in. above the	Inches	0.00	0.04	0.03	Sum 0.56	25		4100	we the rate of at the ster, the of into reservents.	the dry	7, include the r. r.m., as well stermined by The average	December $los = los = l$	elf-regist	red unde of Lieut	f the we ay; decr th; decr
	4		Robinson's.	Amount of Horizontal		Milos	337 399 269	407	423 245 485	Sum 2565	24		0 1 1	sidered to be 153 reet above the metal considered to be coincident with those considered to be coincident with those readings of the barouncer, the dry these times, are converted into mean the by James Glasher, F.R.S., from five hy James Glasher, F.R.S., from five	values of edition.	column; and 9h. sers, as de to each.	ing 1863, ing her," a e to be t	use of se	e register rmission	inning o e same d on the 29 week.
۱		rs.	1		Mean of 24 Obs.	lhe -	0.08	1.0	1.0	:	93		1	be 159 to be ations of the es, are	daily ourth	ted in h. P.M. mome	the th rs end ead " h	by the	by pe	on the Per P.M. of the
١		momete		nsquar	Least.	lhe.		0.0	0.0	:	61	A STATE OF THE PARTY OF THE PAR		od to idered observ dings se tim	mean mean	exhibi	from 50 year t+is r	ained on " P	strume ship,	n. P.M. by 9h ne end
	WIND.	rom Ane		Pressure on square foot.	Great-	1100	2.0	6.5	9.0	£:	123		1	nsider re cons . The he res at the	those Tal	mbers .M. ; m inimu	laisher n the ind tha	ascert Scorpi	ard the	30.02 in by 9 .79 in. at th
	Or Street or	As deduced from Anemometers.	Osler's,		P.M.		SW & SSW SW. SSW.	SW.	SSW. NW.W.R.SW. SW. & W. by S.	7.	20		NOTES.	be barometer is considered to be 150 feet above the mean the barometer are considered to be coincident with those mandard barometer. The observations are taken at \$0.14.5.  The means of the readings of the barometer, the dry meter observed at these times, are converted into mean mater, observed at these times, are converted into mean conventions, additionally by James (Jaistler, F.R.S., from five conventions).	r 31.—See I	or the nurad at 9h. A	ed by Mr. Greenwich, i borne in m	Thames is	dings of the	sed from to 29.51 in reased to 29.61 i
	120-211			General Direction.	А.М.		SW. SW. S. & SW.	SW.	SSW. SW. & NW.	SW.	19			The height of the cistern of the barometer is considered to be 150 feet above the metal level of the Sea. The readings of the barometer are considered to be coincident with those of the Royal Society's fluit glass standard barometer. The observations are taken at 91. A.M.; noon; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry noon; 3h. P.M.; and 9h. P.M. The means of the readings of the barometer, the dry character and these times, are converted into mean thermometer, and the vert thermometer, observed at these times, are converted into mean	any values by the splottenton to convectors So. Phil. Tyrans, part 1, 1848. The mean daily venue by the splottenton of the day and daily values of the dry and they point and degree of hundrity are deduced from those mean daily values of the dry and day point and degree of hundrity are deduced from those mean daily values of the try and they point and degree of hundrity are deduced from those fourth edition. The results of the try they were the daily of the	We turn other accounts of the air, or the numbers exhibited in column 7, include the observations of the dry thermometer, read at 9h. A.M.; hour; 3h. P.M.; and 9h. P.M., as well observations of the dry thermometer, read at 9h. A.M.; including the proper of the dry thermometers, as determined by a she results deduced from the maximum and minimum thermometers, as determined by the average subservations being applied to each. The average the account of the proper corrections being applied to each.	temperature of the air is that deformined by Mr. Glaisher from the thermometrical 008eFva- tions taken at the Royal Observatory, Greenwich, in the 50 years ending 1863, December 31. *In reading the 17th column it will be borned in mind that is read "kighery," and—"forcer," and—"forcer," in the next of the protections are to be understood as	than the averaging. The results of an inchromatic property of self-registering applying to the overliday, or from midnight to midnight to make the overliday, or from midnight to midnight the overliday or from midnight to midnight of the temperature of the water of the Thannes assembled to the water of the Maconiton. Police Ship, at the depth of	inferindiscless, suspensed and The readings of these instruments are registered under the about 2 feet below the surface. The readings to board the ship, by permission of LieutCol. Surface of the resident throughout and the ship, by permission of LieutCol. Surface of the Colombian Police.	Henershy, L. L., Chr., C
	Degree	of Hu-	complete Satura-	tion	sented by 100.	- 1	86 91 98	84	84 89 92	89	18			cistern ne readir s fint gl d 9h. P	applicated inding 18 of hun terms by	perature dry ther ced from	ir is the coyal Ob th colun	day, or of the w	he surfa	he baron the 27th M. on th
Under the Superintendence of the Astronomer Royal.]		Between	14	the day and mean tem-	perature of the same day on an average of 50 years.*	1111	+++	+ 7.4	+++	9.9 +	17			The height of the eistern of the level of the sea. The readings of the Royal Society's flut glass sonon; Sh. P.M.; and 9h. P.M.; thermometer, and the wet there	es by the ervations e and degre	daily tem ons of the sults dedu	ire of the in at the I	unan the average. applying to the civil	set below t	ading of the property of the p
onome.	DIFFERENCE	Point 1	0	-	Least.		0.0	67	2.6	1.2	16			he hei of the he Roy n ; 3h	ly valurs' obs	mean ervation the re-	peratu ns take In read	olying the ter	out 2 for	The red 29.23 i 29.60 in
ve Astr	DIEF	Detwoon Dew Point	Temperature	Air Temperature.	Great- est.	-	3.5	8.4	5.1	5.3	15		0	at the	-			apj	-	
nce of t	1 1 100 110	Doturoo	Ter	Air	Mean daily value.	184 1 1	0.8.2.0 8.4.4	4.6	4.6.9.	3.0	14				geable till	luring th	t of clou	Strong wind.	thin rain	Thin rain fell
ntender	100	1	ater of	ch, by	aeters. Lowest.	11.14	37.7 37.9	38.3	39.0	38.5	13			corona and halo	y chang	thinly o	amoun s of rain.		a little	ss. Thi
Superi	Pare 1	-	In the Water of	Greenwich, by	Thermometers.	1 1 1000	40.4	41.0	41.6	41.2	12		PHERI	Lunar col	loud ve	ing, and	ht. The	requent	ing, and	1 cloudle
nder the	EBS.	I control 1	on the	shownby a self-		meter.	30.1 31.0 39.5	35.1	37.3 28.0 30.2	33.0	1=		ATMOSPHERE		ount of	onwards arly morn	nd at nig	Thin rain fell frequently.	in morn from n	.M.; ther
	THERMOMETERS	The state of the s	the sun, as		10,00	Grass.	51.7	68.3		55.3	10		SKY AND	Light clouds.	generally, but the amount of cloud very changeable	night. Overcust from the F.M. ohwards, when cocasions come. Rain fell heavily during the early morning, and thinly during the day. Overcust throughout.	Cloudy in early morning and at night. The amount of cloud very variable at other times. Occasional showers of rain.		reast, gloomy, and foggy in morning, and a little thin ell. Generally cloudless from noon onwards. Hoar i	nerally overcast till Oh. P.M.; then cloudless.
	1 6	3	Dew Point,	Moon			37.2			40.0	10	0	20	fine day.	arally, t	reast fre	early le at oth	reast throughout.	gloomy	overca y.
	Drain and	MADEN	1	Moon		1 1	41.0			43.0	0	0		ary		ain fell l	loudy in	Overeast	vereast, fell.	agar. enerally isionall
	1		Dry.	Bango	in day.	1 00 1	6.9	-		6.7	11-	-		A. A.	nignt.	nigi R I day		0	Over also fe	Gen Geasi
		-	Q	1 1 1	Low-	-	37.8	41.7	36.0	39.4		0		H. S.			tus out			
1 101	-	-	-	11-	High-		44.7	48.9		4 46.1		0 =	ICITY				appara			
40 1 20 1 23	BARO-	METER.	daily	(cor-	and re- duced to 32 degr. Fahren	heit).	in. 29.927 29.754	20.00	29.273 29.619 29.641	99.604	1	4	BLECTRICITY				ectrical			
	-	MOON.	-	Phases	of Moon.		::	Apogee.			1	9	E	7 16 13			The electrical, apparatus of action,			
Tupana	0			-	DAY.		ER. 24		30.08	1	-	muns.	-	R. 24	75	26	12	88	20	8
-	-		-10.	18/1.	Monte and Day.	-	DECEMBER.	TUESDAY	WEDNESDAY. THURSDAY. FRIDAY.	N. Care	MEAN	No. of Columns.	THAUT	DECEMBER SUNDAY .	Monnay	TUESDAY .	WEDNESDAY	THURSDAY.	FRIDAK .	SATURDAY.
	1	OCINIO.	free	ECTOR O	-	-	07 54	-	Maria Commission	-	-	-	-							10000